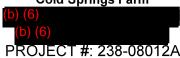


Comprehensive Nutrient Management Plan

For Cold Springs Farm



Prepared in Cooperation with the:

USDA – Natural Resources Conservation Service

And

Elizabeth Field Office Jo Daviess Soil and Water Conservation District

227North Main Street P.O. Box 502 Elizabeth, Illinois 61028

Approved Conservation	Planner and (Certified CNMI	P Specialist
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Owner/Operator

As the owner/operator of this CNMP, I certify that I, as the decision maker, have been involved in the planning process and agree the items/practices listed in each element are needed. I understand that I am responsible for keeping all the necessary records associated with the implementation of this CNMP. It is my intent to implement/accomplish this CNMP in a timely manner as described in the plan.

Signature:	Date:	

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited basis apply to all programs.) Persons with disabilities who require alternative means for communication or program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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S:\238\2008 project numbers\238-08012A (Cold Springs Farm CNMP)\Section 1-3 8 D-I (CNMP Write Up)\Cold Springs Farms CNMP.doc

Appendix F	Feed Management (Optional if Needed)
Appendix G	Guidance Information
· •	Air Quality and Pathogen Management Considerations
	Winter Application
	Manure Application on Steep Fields
	Manure Application on Fields Subject to Flooding
	General Liquid Manure Applications
	Liquid Manure Application – Tile Drained Fields
	Manure Application on Fields with "Systematic Surface Drainage"
	Minimum Ground Cover for Manure Applications
Appendix H	Other Utilization Components (Optional if Needed)
Appendix I	Available Water Capacity (AWC) Practical Soil Moisture Interpretations for Various Soils Textures and Conditions to
	Determine Liquid Waste Volume Applications Not to Exceed AWC

MANAGEMENT PLAN" (NMP) DEVELOPED ON THEIR LAND WITH NRCS OR APPROVED 3RD PARTY ASSISTANCE.

SECTION 2 Farm Overview

(Farm Pictures, Plat maps, Topo maps)

All fields have been identified as reasonably close to the site (<5 miles). The LMFA and NRCS standard 590/633 allow a buildup of up to 300 lb/acre of P1. It is not desirable to reach levels higher than 300lb/ac of P1.

The setbacks for all the application fields are listed below. All setbacks are in conjunction with the application of manure with or without incorporation.

Setback	Distance, ft
Wells	150
Surface Water	200
Residence ¹	1320

¹ If manure is not injected or incorporated on day of application.

{Describe Topography}



EPA I.D. NUMBER (copy from Item 1 of Form 1)

	form 2B	EPA				. PROTECTION AG TO DISCHARGE W	
	NPDES	CC	ONCENTRA	TED ANIMAL FEE		TIONS AND AQUA LITIES	TIC ANIMAL PRODUCTION
	I. GENERAL INFO	RMATION	Applyin	g for: Individual	Permit 🗆	Coverage Under	General Permit
	A. TYPE OF BUSINE	ESS		B. CONTA	CT INFORMA	ΓΙΟΝ	C. FACILITY OPERATION STATUS
	and Section II) 2. Concentrated Ac	plete items B, C, I quatic Animal lity (complete iter	Teleph Addres	or Name (b) (6) none: (b) (6) ss: (b) (6)		Code:	■ 1. Existing Facility □ 2. Proposed Facility
(b) (6	D. FACILITY INFOR		· · · · · · · · · · · · · · · · · · ·			hone: (<u>***</u> ** (5) **/6	
					Zip C	ode <mark>(b)</mark>	
,	County: Jo Daviess		_ Latitude:	42 Deg 16 Min Nor	th	Longitude: 90 Deg 2	0 Min West
	If contract operation: 1						
	II. CONCENTRATE	ED ANIMAL FE	EDING OPE	ERATION CHARA	CTERISTICS		
	A. TYPE AND NUM	BER OF ANIMA	LS		B. Manur	e, Litter and/or Waste	ewater Production and Use
			2. AN	IMALS			nd wastewater is generated 0400 tons gallons
	1. TYPE		N OPEN NEMENT	NO. HOUSED UNDER ROOF	the ap	plicant are available	ccres of land under the control of for applying the CAFOs
	☐ Mature Dairy Cow	s			c) How	many tons of manure	or litter, or gallons of waste-
	☐ Dairy Heifers						ons (circle one) 7500 tons
	□ Veal Calves						
	☑ Cattle (not dairy or	veal) 1	,740	1,060			
	☐ Swine (55 lbs. or o	ver)					
	☐ Swine (under 55 lb	os.)					
	☐ Horses						
`	☐ Sheep or Lambs						
	☐ Turkeys						

☐ Chickens (Broilers)					
☐ Chickens (Layers)					
Ducks					
Other Specify					
3. TOTAL ANIMALS	1,740	1,060			
C. ☑ TOPOGRAPHIC MAP					
D. TYPE OF CONTAINMEN	NT, STORAGE AN	D CAPACITY			
Type of Containment		Total Capa	city (in gallons)		
☐ Lagoon	,				
☐ Holding Pond					
■ Evaporation Pond	(8)	14,	000,000		
☑ Other: Specify Concret	e Pits	22	25,000		
2. Report the total number of	acres contributing	drainage:	14.3 ac	cres	
3. Type of Storage		Total Number of Days	Total Capacity (gallons/tons)		
☐ Anaerobic Lagoon					
☐ Storage Lagoon					
Evaporation Pond					
☐ Aboveground Storage 7	Tanks .				
☐ Belowground Storage T	anks	·			
☐ Roofed Storage Shed					
☐ Concrete Pad					
☑ Impervious Soil Pad	3 Impervious Soil Pad		6,250 tons		
Other: Specify					
E. NUTRIENT MANAGEM	ENT PLAN				
A. Has a nutrient management plan been developed?					
B. Is a nutrient management plan being implemented for the facility? ☑ Yes □ No					
C. If no, when will the nut	C. If no, when will the nutrient management plan be developed? Date:				
D. The date of the last revi	iew or revision of tl	ne nutrient managemen	t plan. Date: 12/01/06	<u></u>	
E. If not land applying, de	scribe alternative u	se(s) of manure, litter a	and or wastewater: Comp	posting	

Maching Mach	HI. CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY CHARACTERISTICS A. For each outfall give the maximum daily flow, maximum 30-day flow, and the long-term average flow. 1. Outfall No. 2. Flow (gallons per day) 1. Ponds 2. Raceways 3. Other 2. Water Source 1. Receiving Water 1. Receiving Water 2. Water Source D. List the species of fish or aquatic animals held and fed at your facility. For each species, give the total weight produced by your facility per year in pounds of harvestable weight, and also give the maximum weight present at any one time. 1. Cold Water Species 2. Warm Water Species 3. Species 4. Harvestable Weight (pounds) (1) Total Yearly (2) Maximum 4. Month 2. Pounds of Food T. Month 2. Pounds of Food T. Month 3. Month 4. Provide the name of the receiving water and the source of water used by your facility. For each species, give the total weight produced by your facility per year in pounds of harvestable weight, and also give the maximum weight present at any one time. 1. Cold Water Species 3. Species 4. Harvestable Weight (pounds) (1) Total Yearly (2) Maximum 4. Month 4. Month 4. Pounds of Food T. Month 5. Report the total pounds of food during the calendar month of maximum feeding. TV. CERTIFICATION			MANAGEMENT ing best manageme		are being implemented	at the facility	to control rui	noff an	d protect water
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A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A) C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C) E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3) F. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas, or inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4) I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect	FORM	ype in the unshad	U.S. ENVIRO					Form Approved. OMB No. 2040-00 I. EPA I.D. NUMBER		AND PROPERTY AND ADDRESS OF THE PARTY AND ADDR	
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B. COUNTY NAME JO DAVIESS		B		 							
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JO DAVIESS											
							45				

CONTINUED FROM THE FRONT		
VII. SIC CODES (4-digit, in order of priority) A. FIRST	B. SECO	ND
c (specify) BEEF CATTLE FEEDLOTS	c. (specify) CORN	ND .
15 16 - 19 C. THIRD	15 16 - 19 D. FOUF	PTH
c (specify)	c (specify)	AITI
VIII. OPERATOR INFORMATION	15 16 - 19	
A. NAME		B.Is the name listed in Item
8 WILLIAM DRUCKER		VIII-A also the owner? ☐ YES ☑ NO
C. STATUS OF OPERATOR (Enter the appropriate letter into the	inswer box: if "Other." specify)	D. PHONE (area code & no.)
F = FEDERAL S = STATE D = PRIVATE M = PUBLIC (other than federal or state) O = OTHER (specify) P	ecify)	a (815) 591-2111
E. STREET OR P.O. BOX	No. To allow Active Associated	15 6 - 18 19 - 21 22 - 26
6636 WEST BLANDING ROAD		
F. CITY OR TOWN	55	TIX INDIAN LANG
B HANOVER	G. STATE H. ZIP CODE IL 61041	IX. INDIAN LAND Is the facility located on Indian lands? ☐ YES ☐ NO
15 16	40 41 42 47 - 51	
X. EXISTING ENVIRONMENTAL PERMITS A. NPDES (Discharges to Surface Water) D. PSD (Air En	issions from Proposed Sources)	
C T	issions from 1 reposed bources)	
15 16 17 18 30 15 16 17 18	30 S. OTHER (()	
B. UIC (Underground Injection of Fluids) C	E. OTHER (specify)	
15 16 17 18 30 15 16 17 18	30	
C. RCRA (Hazardous Wastes)	E. OTHER (specify)	
9 R	(specify)	
15 16 17 18 30 15 16 17 18 XI. MAP	⋅30	
Attach to this application a topographic map of the area extending to at least one location of each of its existing and proposed intake and discharge structures, each	f its hazardous waste treatment, storage, or d	isposal facilities, and each well where it
injects fluids underground. Include all springs, rivers, and other surface water bodies	n the map area. See instructions for precise re	quirements.
XII. NATURE OF BUSINESS (provide a brief description)		
COLD SPRINGS FARM OPERATES A COMMERCIAL BEEF FEEDING AND FOR 2,800 HEAD. THERE ARE 16 DIRT MOUND PENS AND 8 CONCES PRINGS HAS ABOUT 400 ACRES OF CROP GROUND WHICH HAS BEED PURCHASED FROM THE LESSEE BY COLD SPRINGS. THERE IS APPIED. BALANCE OF ACREAGE IS FOR GRAZING AND TIMBER GROUND SPRINGS EMPLOYS FOUR (4) FULL TIME FARM EMPLOYEES ACCEPTIFIED LIVESTOCK MANAGERS. COLD SPRINGS HAS MAINTAIN ADVISOR, NAMELY TOM PETERS, Ph.D. WE HAVE MONTHLY (FULL THE SON OF THE OWNER AND IS THE GENERAL MANAGER OF THE	ETE (OPEN LOT) PENS WITH SHEDS IN RENTED FOR THE LAST 6 YEARS. PROXIMATELY 300 ACRES OF HAY GROWN FOR RECREATION. ND ONE (1) FULL TIME OFFICE MARKED A 12 YEAR RELATIONSIP WITH LE DAY MEETINGS) ON SITE (1) (6)	S AT ONE END. COLD THE CROP IS TYPICALLY COUND WHICH IS BALED FOR ANAGER. 3 EMPLOYEES ARE A CONSULTING NUTRITIONIST
XIII. CERTIFICATION (see instructions)		
I certify under penalty of law that I have personally examined and am familiar with to	lication, I believe that the inform	d all attachments and that, based on my mation is true, accurate, and complete. I
	of fine and imprisonment.	C. DATE SIGNED
		12/18/2006
COMMENTS FOR OFFICIAL USE ONLY C		





(b) (6)

December 20, 2006

Permit Contact (5EP) U.S. Environmental Protection Agency 77 West Jackson Blvd. Chicago, IL 60604-3507

Re:

NPDES Permit Application

Dear EPA:

Cold Springs Farm is in the business of feeding beef cattle and has, on most occasions, enough cattle on premises to be classified a concentrated animal feeding operation (CAFO). As such, enclosed are completed NPDES Form 2B and EPA General Form 1.

Since the late 1990's, Cold Springs Farm has made a conscientious effort to record, verify and maintain records of soil & water analysis, animal waste applications and similar management practices. Our feedlot foreman, Brad Bauer, has been a Certified Livestock Manager for six years and two additional employees were certified in February, 2006.

As you review the information enclosed, please don't hesitate to contact me with any questions or supportive information you may require. Thank you.

Yours truly, COLD SPRINGS FARM

(b) (6)

General Manager

Service Conditions, Declared Value, and Limit of Liability — By using this Airbill, you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL POR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of \$100 per package whether the result of loss, damage, or delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document our

actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of \$100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is \$500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid. See the FedEx Service Guide for further details.

Questions? Call 1.800.Go.FedEx° (800)463-3339

The World On Time

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Rev. Date 3/98 Part # 153023PG ©1994-98 FedEx PRINTED IN U.S.A. GBFE 11/98

Cold Springs Farm

Cold Springs Farm was established in 1964 when has been acquired the 400 acre "King Sisters" farm in Jo Daviess County, Illinois. Within the following six years, contiguous farm ground was purchased and a cow/calf herd was established. A small set of feeding pens was built to allow the calves to be fed out and by the late 1970's the vision of feeding cattle was becoming a reality. Recognizing the potential impact, has been keeped in farm management personnel consulted authorities, studied publications and embarked on a plan to develop a low impact operation. Following are many of the steps that were taken to create the facility that exists today.

During the early 1980's we engineered and constructed several feeding pens on the farm. With input & guidance from FSA personnel, the Universities of Illinois & Iowa State, engineers and others, we built a capacity for nearly 3.000 cattle. Approximately half of the capacity was for feeding cattle on dirt mounds and the balance on open concrete with a shed at one end.

Consistent with our personal philosophies, these facilities were engineered and built to protect the environment and to insure that water leaving our farm was the same as water flowing into it. Each dirt pen was designed with a manure alleyway where waste could be easily pushed, removed and spread. Pairs of evaporation ponds were built below these dirt pens for excess runoff or un-seasonal rains. Below each concrete pen, a concrete manure pit was built capable of holding up to 1,000 cubic yards of waste. Below that were additional evaporation ponds to, once again, handle any overflow. It has been our management practice to remove & spread waste from the alleyways and concrete pits before any precipitation event would wash any of this waste into the evaporation ponds.

Anticipating the need to stabilize waste material and monitor field analysis, in the early 1990's we invested in a composting aerator and tractor to operate it. The Brown Bear Corp. composting/aerator head has proven to be a real asset. Not only will it windrow manure compost, but its use in the dirt pens alleviates erosion and keeps the pens drier. Our ability to compost has allowed us to move waste material to offsite locations such as landscapers, nurseries and developers. With the compost having significantly lower N P K values, our field applications have not put a stress on the N P K of each field. According to the Nebraska manufacturer, Brown Bear, we were one of the first to acquire their equipment for feedlot waste composting. Though they refer to us as a dairy, the following Web link has a piece about us: http://www.brownbearcorp.com/Beef.htm

We and our employees take pride in our stewardship of the land. It is our philosophy and practice to protect the environment, waterways, wildlife, and preserve the peace and tranquility of the area. Our employees are trained in the practices of the livestock management facilities act and three of them are Certified Livestock Managers. Furthering our commitment, we have protected our waterways with filter strips consisting of over 75 acres. This complements the 10 acre wetland we established over 12 years ago. For the past six years, on a quarterly basis, we have water samples independently collected and tested to confirm our facilities are not producing any contaminated runoff. We sample from streams (at our property line) as they enter the farm and at the outflow where they leave our property. Those test results are all included herein.

STATE OF ILLINOIS Date Issued: 3/16/2006 License Number: LM 0856354 Date of Expiration: 1/18/2009 Type: 1000 or more A.U. DEPARTMENT OF AGRICULTURE Certified Livestock Manager Certificate This is to certify that the person whose name appears on this certificate has complied with Section 30 of the Illinois Livestock Management Facilities Act, 510 ILCS 77/30, and/or rules and regulations adopted there under and is therefore certified as a livestock management facility manager. Therefore said person is granted certification as specified herein until the date of expiration unless and until otherwise suspended, revoked or modified as provided in the act cited. Warren D. Goods of Bureau Chief Director, Illinois Department of Agriculture Bureau of Environmental Programs

STATE OF ILLINOIS License Number: LM 0856396 Date Issued: 3/16/2006 Type: 1000 or more A.U. Date of Expiration: 1/18/2009 DEPARTMENT OF AGRICULTURE Certified Livestock Manager Certificate This is to certify that the person whose name appears on this certificate has complied with Section 30 of the Illinois Livestock Management Facilities Act, 510 ILCS 77/30, and/or rules and regulations adopted there under and is therefore certified as a livestock management facility manager. Therefore said person is granted certification as specified herein until the date of expiration unless and until otherwise suspended, revoked or modified as provided in the act cited. Warren D Goet of Director, Bureau of Environmental Programs Illinois Department of Agriculture

Dete leaned: 3/14/2006: Date of Experiment 1/18/2009

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Types 1 (100 Cempers A.U.

*** DEPARTMENT OF AGRICULTURE

This is to cardly that the person whose name appears on this certificate has compile regulations adopted through the person whose name and the cardinal factor of the filling through the person is the respective and the person is the respective of the person in the respective has been appeared to the respective time and the respective time.

General Facility Information

Form 2-A

Owner/Company Information	n	
Name: (b) (6) COLD	SPRINGS FARM .	
Address: (b) (6)	OF THINGS FAILING	
City (4) (0)	Ctata.	7:
City: (b) (6)	State: b	Zip: (b) (6)
(b) (6)		
Ownership status: Federal:	☐ State: ☐ Public: ☐ Private	Э
Manager/Operator Information	on	· · · · · · · · · · · · · · · · · · ·
		·
Address: (b) (6)	b) (6)	
City: (b) (6)	State:	Zip: (b)
Phone: (b) (6)		
Facility Information		
Address(b) (6)	•	
Plat location:		
See attached sheet for directions 8	also include latitude/longitude of entra	ance to the production area):
	west & Latitude: 42 degrees, 15 minu	utes, 42 seconds north
Phone: (b) (6)	Emergency contact: (b) (6))
	σ , κ	·
	tifications: Include in your plan 3-rin tion for any employees so certified, N	
Identify here who wrote the manure	management plan and does the annu	ıal updates.
(b) I I I I I I I I I I I I I I I I I I I		

If someone certified wrote the plan, attach copy of the certification, and identify the agency that provided the certification.

•		anges that <i>may</i> need to be made during the end of year neach field's nutrient management plan.)
⊠ Acr	es min	us setback.
X Yea	ır of pl	an *
If new		st data: est date pH P1 K
reco that	oncilia the m	ample analysis. We want this to only affect the last plan year prior to tion, and those years following. Not the years before. The assumption is anure sample in prior years was good but the plan year sample was/may been available until after the manure was applied.
∑ Yea	ırs 2 th	ru 4:
 .	a.	Crop —Crop rotation may change for any of a number reasons.
	b.	Yield —Actual crop yield will almost certainly be different from expected yield, which is a five year rolling average minus disaster years plus a small percent genetic increase.
	c.	Season—Actual season of application may change or it may be split between spring/fall.
	d.	Application rate—Actual rate will almost certainly be different from the
		planned, and could affect the plan for subsequent years.
	e.	Mineralization factor—This probably won't change but it could,
		depending on the manure source.
	f.	NH4-N application loss—This would probably only change if the
•		application method and/or manure source changes.
	g.	Other legume credits—Needs to be accounted for.
	h.	Incidental N—Same as g.

Annual Update Checklist

i. Incidental P—Same as g.j. Incidental K—Same as g.k. Lime** For records only.

^{*}Always changes

^{**} Not yet incorporated on spreadsheet. Informational only.

ANIMAL UNITS WORKSHEET

Species	Production	Facility Design	Multiplier	Subtotals	
opeoles	Phase	Capacity	mana pinor		
Dairy	milk cows		x 1.4	0	
	heifers, calves		x 0.6	0	
Beef	feeder, cows	2800	x 1.0	2800	
Swine	pigs under 55 lb		x 0.03	0	
				0	
	pigs over 55 lb		x 0.4	. 0	
				0	
				0	
Turkeys			x 0.02	0	
Laying hens or			x 0.03	. 0	
broilers			·	0	
Ducks			x 0.02	0	
Horses			x 2.0	0	
Sheep, lambs,			x 0.1	0	
goats					
			Total	2800	

Cold Springs Farm

Cold Springs Farm is a 1225 acre farm in rural Jo Daviess County. Access to the farm can be from either Black Jack Rd at Irwin Rd. (42°, 17', 22" North & 90°, 19', 50" West) or W. Blanding Rd. (42°, 15', 42" North & 90°, 21' West). The Legal Description, Parcel Numbers & acreage are as follows:

Parcel Number	Description	Acreage
09-000-001-03	S1 T26 R1E PT E 1/2 NW PT NE 7 PT SE	203.65
09-000-007-00	S1 T26 R1E E 1/2 SW SW SE	121.50
09-000-007-03	S1 T26 R1E W 1/2 NW W 1/2 SW	160.00
09-000-013-00	S2 T26N R1E E 1/2 SE & E 1/2 NE	161.00
09-000-048-00	S12 T26 R1E E 1/2 NW, NE & NW SE	279.07
09-000-048-03	S12 T26N R1E W 1/2 NW	80.00
09-000-052-00	S12 T26 R1E NE SW & PT NW SW	62.55
09-000-128-00	S7 T26 R2E E 1/2 NW & PT W 1/2 NW	157.30

EMERGENCY RESPONSE PLANNING COLD SPRINGS FARM

FARM DIRECTIONS & MAP

FROM HANOVER (Route 1):

At the Apple River bridge on Highway 84, go west on Fulton Rd. Go about ½ mile where road will fork; stay to the right on W. Blanding Rd towards Blanding Landing. Go about 4 miles on W. Blanding and Cold Springs Farm entrance is clearly marked with EMS 6636 signage.

FROM HANOVER (Route 2):

About 2 blocks north of the Apple River bridge on Highway 84, go northwest on South Blackjack Rd (towards Chestnut Mountain Resort). In about 3 miles, Sawmill Rd. will intersect Blackjack from the right. Proceed ¼ mile and turn left on Irwin Rd. This will bring you in to Cold Springs Farm from the North.

FROM ELIZABETH:

Proceed west on Rt. 20 out of Elizabeth and go about 1-1/2 miles. Turn left on Highway 84 (towards Hanover). In 2 miles, turn right on Sawmill Rd. Sawmill will dead end at Blackjack Rd. Turn right and go ¼ mile. Turn left on Irwin Rd. This will bring you in to Cold Springs Farm from the North.

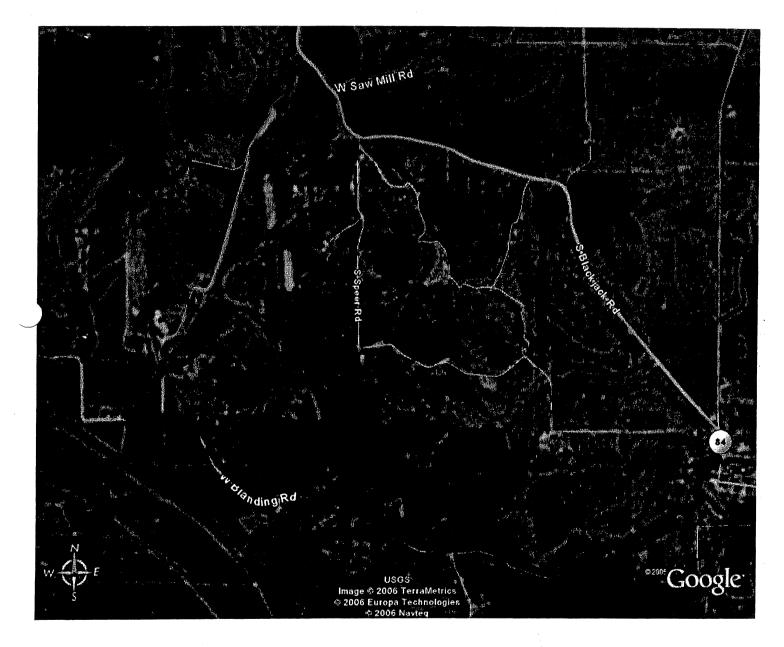
FROM GALENA:

Proceed east out of Galena on Rt. 20. About 1/3 mile east of the Galena River bridge, turn right on N. Blackjack Rd. Follow N. Blackjack about 17 miles. Turn right on Irwin Rd. This will bring you in to Cold Springs Farm from the North.

SEE FOLLOWING PAGE FOR MAP

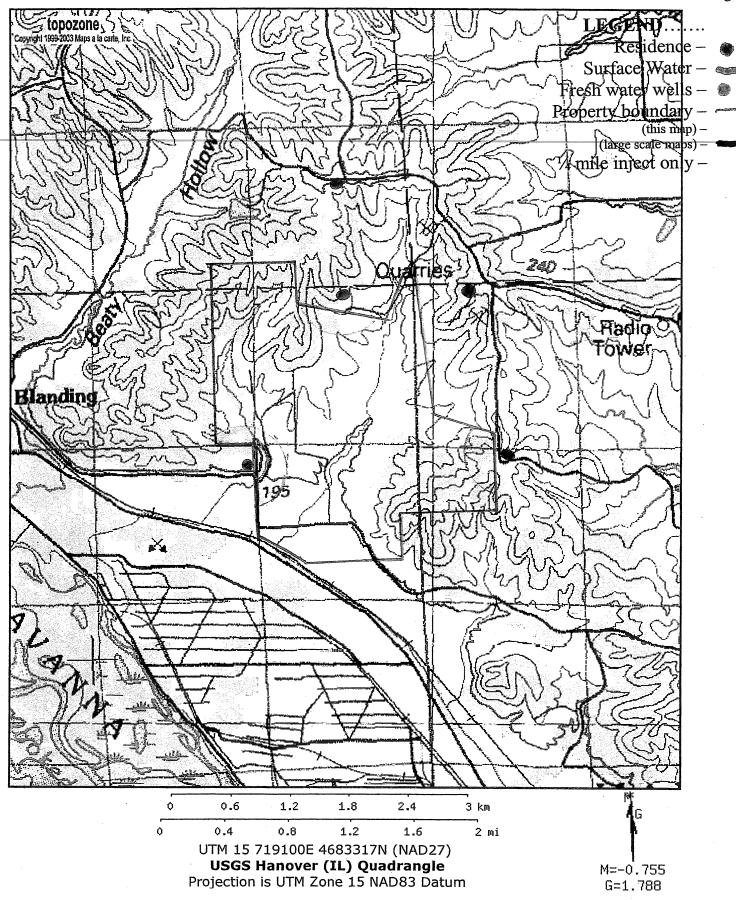
FROM HANOVER (Route 1):

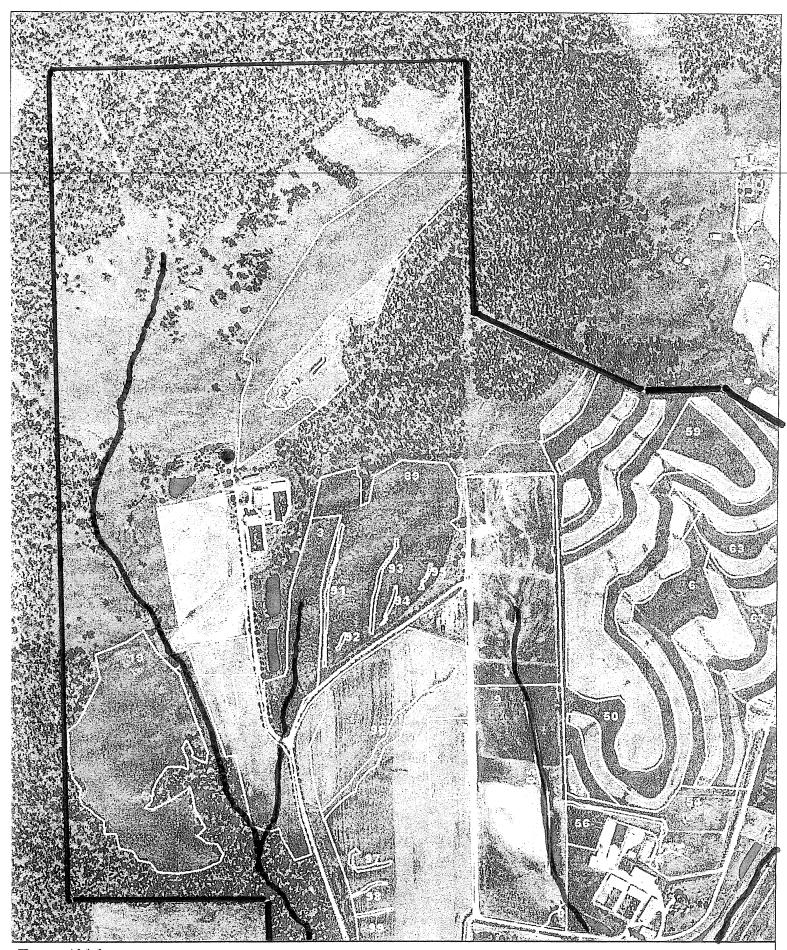
At the Apple River bridge on Highway 84, go west on Fulton Rd. Go about ½ mile where road will fork; stay to the right on W. Blanding Rd towards Blanding Landing. Go about 4 miles on W. Blanding and Cold Springs Farm entrance is clearly marked with EMS 6636 signage.



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Tract 4316 Farm 4047 NOT TO SCALE





Tract 4316 Farm 4047 NOT TO SCALE

0.06 0 0.06 0.12 0.18 0.24 Miles





Tract 4316 Farm 4047 NOT TO SCALE



Tract 4316 Farm 4047 NOT TO SCALE

0.06 0 0.06 0.12 0.18 0.24 Miles



Map Printed:Jun 13, 2005

Cold Springs Farm

Fields Available and Intended For Livestock Waste Application

Fields available for livestock waste application and acreage are:

Field #	Acreage
1	19.26
20	6.94
19	20.45
89	20.69
50	23.9
59	3.75
6	6.7
63	3.93
67	11.69
41	6.45
43	2.94
30	3.13
32	3.71
34	3.22
24	23.67
12	40.78
16	14.59
	administration of the second
	115.80

Facility Working and Design Capacity

Form 3-A

Building(s) or feedlot name: <u>COLD SPRINGS FARM</u>

Animal numbers (design capacity of building or feedlot) "fill in blanks." (Animal stage of production and average animal size, pounds, and number of animals).

Column A	Column B	Column C	Column D	Column E	Column F	Column G
Days in Use/Year	Species	Stage of Production	Average Weight	☐ 12/31 inventory ☐ _/_ inventory (mm/dd) ☑ Average Inventory	Max. # Inventory (or % variation from average)	CNMP*** Animal Units (Column D × E / 1,000 lb.)
365	Beef	VARIOUS	825	2800	3150	2310
	Dairy	Mature				
-	Dairy	Heifers				
	Veal Calves					
	Turkeys		-			
	Chicken	Broilers				
	Chicken	Layers				
	Swine	Sows/gestation*		•		
	Swine	Unweaned pigs**				
	Swine	Nursery**				
	Swine	Boars/culls*				
	Swine	Finisher*				
	Horses					,
	Other					

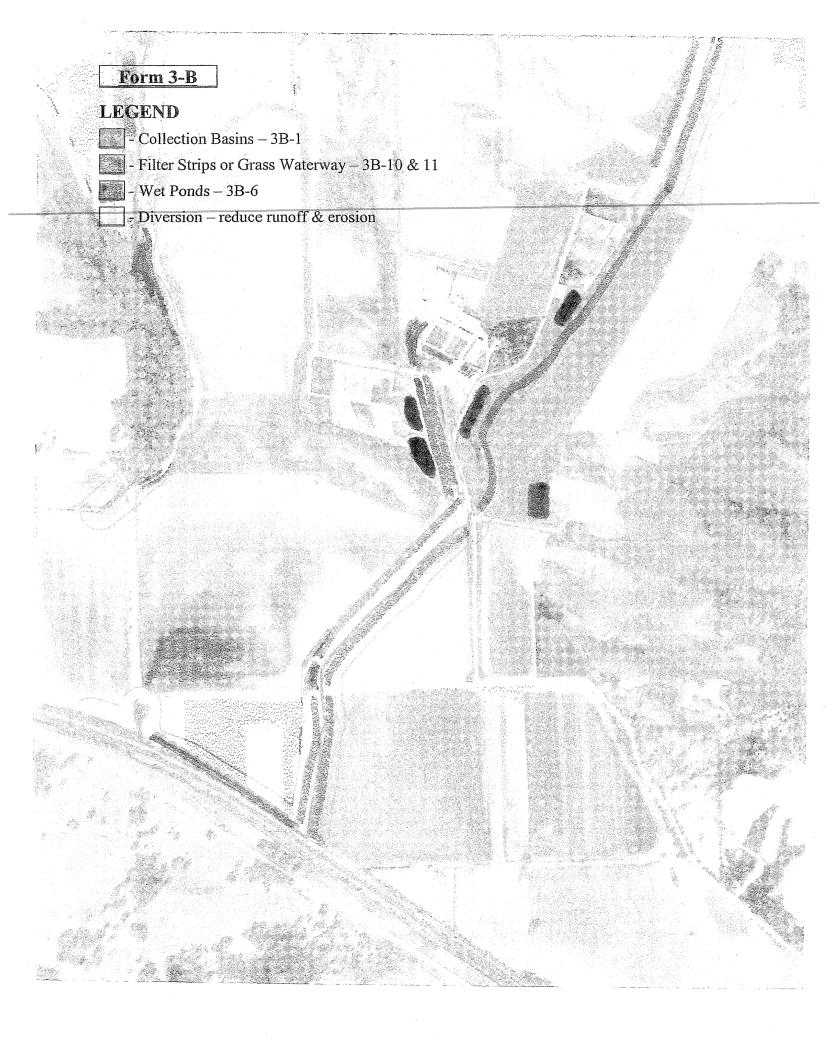
Species	Production Phase	Multiplier	Design Capacity	Total Animal Units
	Milking dairy cows	× 1.4		
Dairy	Young dairy calves	× 0.6		
Beef	Brood cows, slaughter and feeder cattle	× 1.0	2800	2800
	Pigs under 55 lbs	× 0.03		
Swine	Pigs over 55 lbs	× 0.4		
Turkeys	i	× 0.02		
Laying hens or bro	ilers - (other manure handling systems)	× 0.005		
Laying hens or bro	ilers (continuous overflow watering)	× 0.01		
Laying hens or bro	ilers (liquid manure handling system)	× 0.03		

Storm Water Pollution Prevention Plan

Υ	N	NA	Map Legend*	Physical Structures	
		<u></u> .	3B-1	Collection basins—Permanent structures in which large spills or contaminated storm water is contained and stored before cleanup or treatment. Collection basins are designed to receive spills, leaks, etc., and to prevent pollutants from being released into the environment. Collection basins can receive and contain materials from many locations across a facility.	
			3B-2	Curbing—A barrier that surrounds an area of concern. Unlike diking, curbing is unable to contain large spills and is usually implemented on a small-scale basis. However, curbing is common at many facilities and in small areas where liquids are handled and transferred.	
			3B-3	Containment diking—Containment dikes are temporary or permanent earth or concrete berms or retaining walls that are designed to hold spills. Diking can be used at any facility, but is most common for controlling large spills or releases from liquid storage and transfer areas. Diking can provide one of the best protective measures against the contamination of storm water because it surrounds the area of concern and keeps spilled materials separated from the storm water outside of the diked area.	
		\boxtimes	3B-4	Diversions —A diversion is a channel constructed across the slope, generally with a supporting ridge on the lower side, for the purpose of changing the direction of flow of storm water.	
		×	3B-5	Dry extended detention ponds—Dry extended detention ponds (a.k.a. dry ponds, extended detention basins, detention ponds, extended detention ponds) are basins whose outlets have been designed to detain the storm water runoff from a water quality design storm for some minimum time (e.g., 24 hours) to allow particles and associated pollutants to settle. Unlike wet ponds, these facilities do not have a large permanent pool. However, they are often designed with small pools at the inlet and outlet of the basin. They can also be used to provide flood control by including additional flood detention storage.	
			3B-6	Wet ponds—Wet ponds (a.k.a. storm water ponds, retention ponds, wet extended detention ponds) are constructed basins that have a permanent pool of water throughout the year (or at least throughout the wet season). Ponds treat incoming storm water runoff by settling and algal uptake. The primary removal mechanism is settling as storm water runoff resides in this pool, and pollutant uptake, particularly of nutrients, also occurs through biological activity in the pond.	
			3B-7	Infiltration basin—An infiltration basin is a shallow impoundment that is designed to infiltrate storm water into the ground water. This practice is believed to have a high pollutant removal efficiency and can help recharge the ground water, thus restoring low flows to stream systems.	
			3B-8	Infiltration trench—An infiltration trench (a.k.a. infiltration galley) is a rock-filled trench with no outlet that receives storm water runoff. Storm water runoff passes through some combination of pretreatment measures, such as a swale and detention basin, and into the trench. There, runoff is stored in the void space between the stones and infiltrates through the bottom and into the soil matrix. The primary pollutant removal mechanism of this practice is filtering through the soil.	
		⊠	3B-9	Storm water wetland—Storm water wetlands (a.k.a. constructed wetlands) are structural practices similar to wet ponds that incorporate wetland plants into the design. As storm water runoff flows through the wetland, pollutant removal is achieved through settling and biological uptake within the practice. Storm water wetlands are designed specifically for the purpose of treating storm water runoff, and typically have less biodiversity than natural wetlands in terms of both plant and animal life.	

_				
	\boxtimes		3B-10	Grassed waterways/swales—A series of vegetated, open channel management practices designed specifically to treat and attenuate storm water runoff for a specified water quality volume. As storm water runoff flows through these channels, it is treated through filtering by the vegetation in the channel, filtering through a subsoil matrix, and/or infiltration into the underlying soils. Variations of the grassed swale include the grassed channel, dry swale, and wet swale.
				Grassed filter strip—Grassed filter strips (vegetated filter strips, filter strips, and
	\boxtimes		3B-11	grassed filters) are vegetated surfaces that are designed to treat sheet flow from adjacent surfaces. Filter strips function by slowing runoff velocities and filtering out sediment and other pollutants, and by providing some infiltration into underlying soils.
			3B-12	Catch basin—A catch basin (a.k.a. storm drain inlet, curb inlet) is an inlet to the storm drain system that typically includes a grate or curb inlet and a sump to capture sediment, debris, and associated pollutants. They are also used in combined sewer overflow (CSO) watersheds to capture floatables and settle some solids. Catch basins act as pretreatment for other treatment practices by capturing large sediments.
			3B-13	In-line storage—In-line storage refers to a number of practices designed to use the storage within the storm drain system to detain flows. Storage is achieved by placing devices in the storm drain system to restrict the rate of flow. Devices can slow the rate of flow by backing up flow, as in the case of a dam or weir, or through the use of vortex valves, devices that reduce flow rates by creating a helical flow path in the structure.
			3B-14	Other practices

^{*} Mark the map legend codes on facility/production area maps where appropriate.



Form 3-B

LEGEND

- Collection Basins – 3B-1

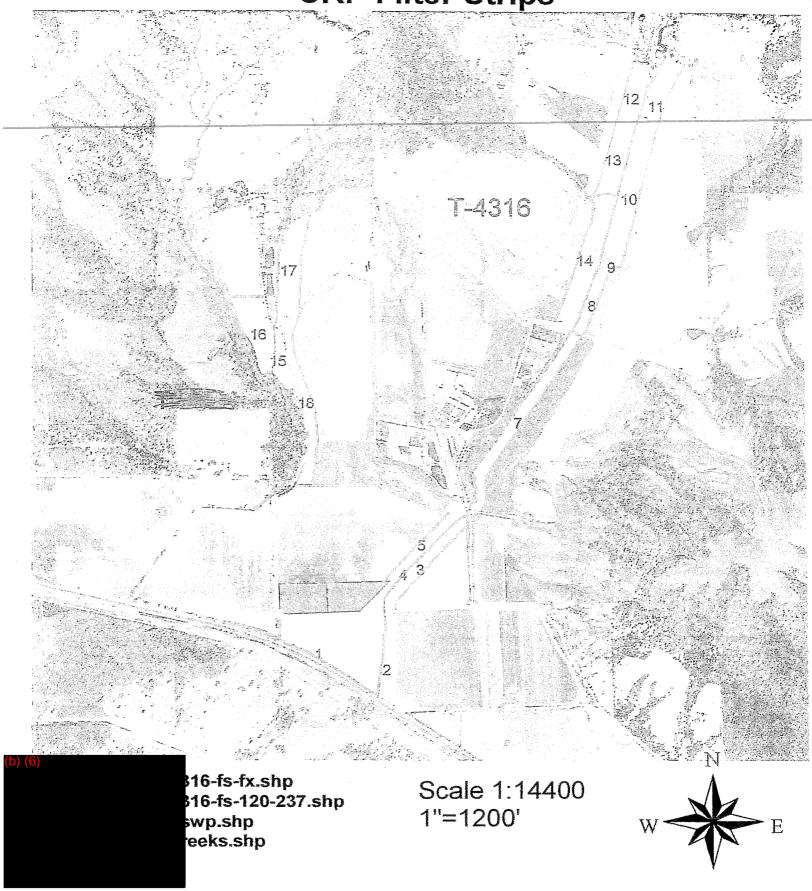
Filter Strips or Grass Waterway – 3B-10 & 11

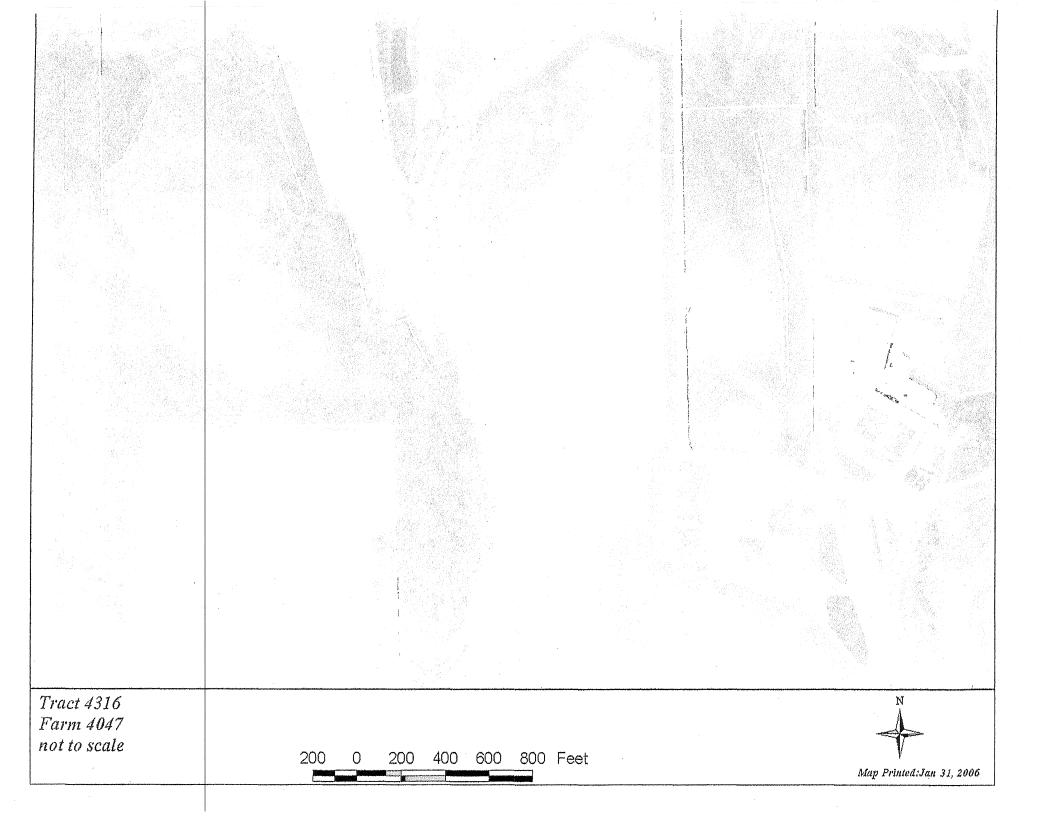
- Wet Ponds – 3B-6

- Diversion - reduce runoff & erosion

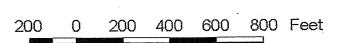
Form 3-B		
LEGEND - Collection Basins – 3B-1 - Filter Strips or Grass Waterway – 3 - Wet Ponds – 3B-6		
- Diversion — reduce runoff & erosion	n e e e e e e e e e e e e e e e e e e e	

CRP Filter Strips





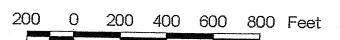
Tract 4316 Farm 4047 not to scale



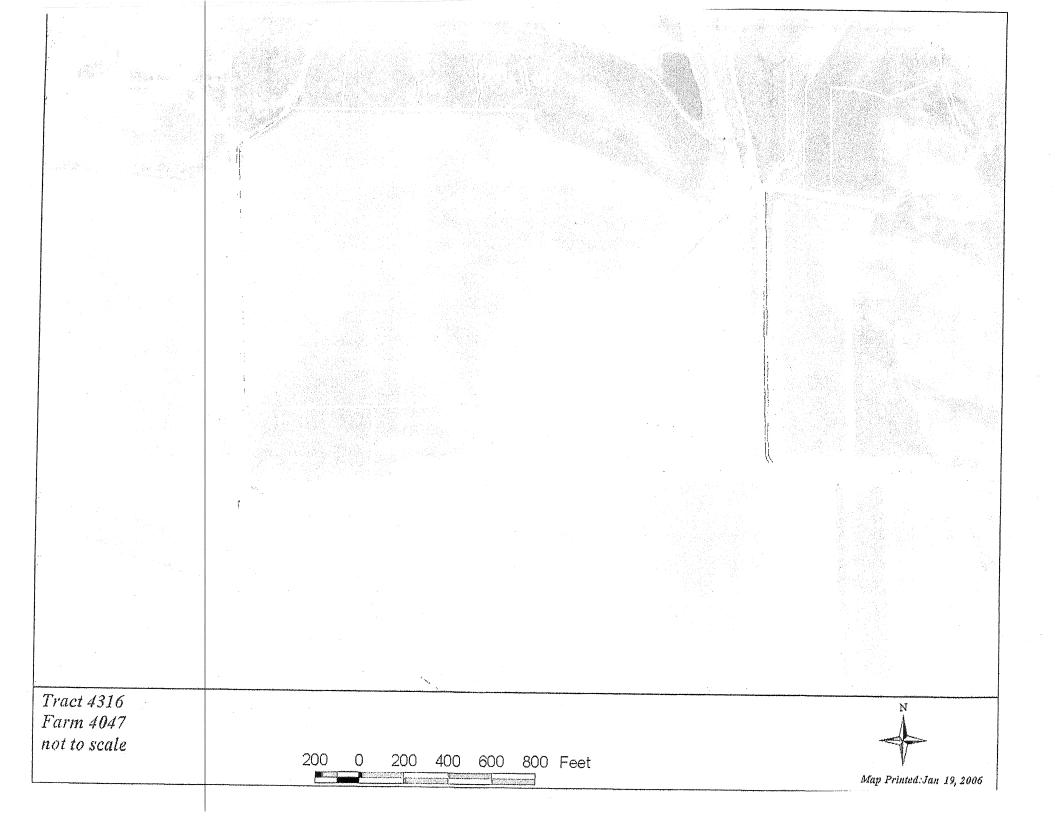


Map Printed:Jan 19, 2006

Tract 4316 Farm 4047 not to scale







Tract 4316 Farm 4047 not to scale 200 400 600 800 Feet

Tract 4316 Farm 4047 not to scale

200 0 200 400 600 800 Feet



38

43

42

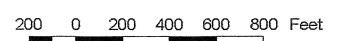
37 41

39

78

109

Tract 4316 Farm 4047 not to scale





Facility/Production Area Storm Water Pollution Prevention Plan

Form 3-C

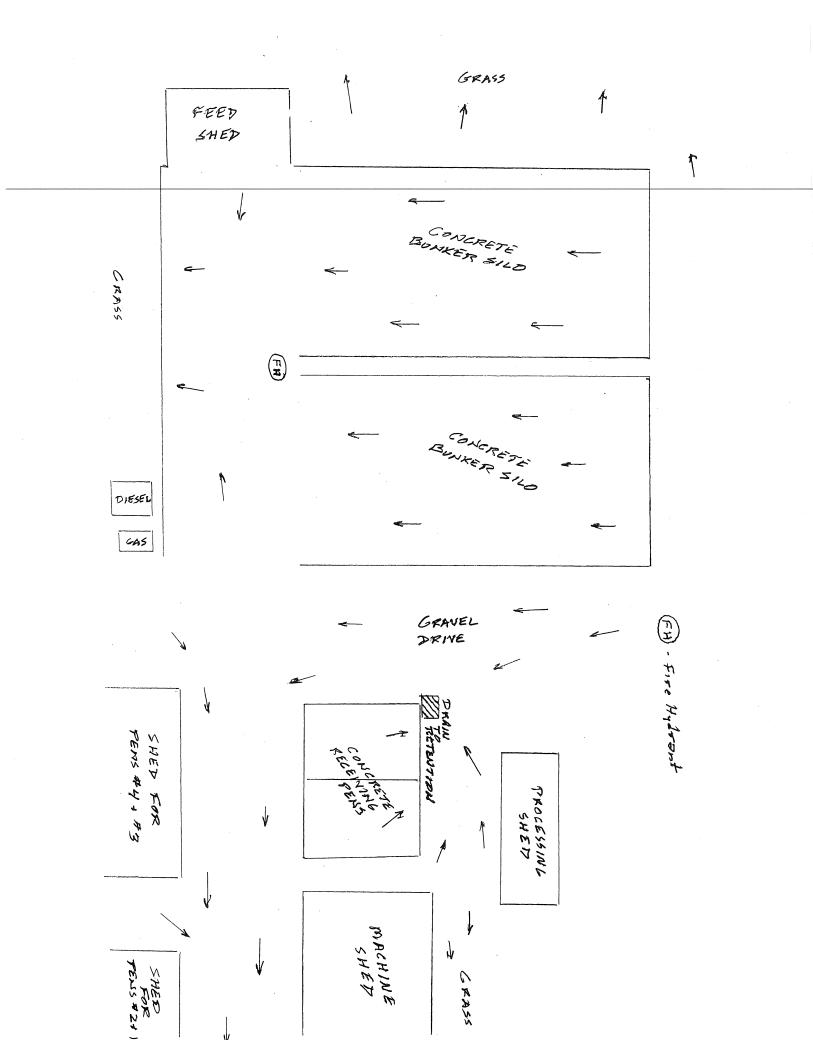
Mark those BMP's listed below that are applicable to any part of your operation.

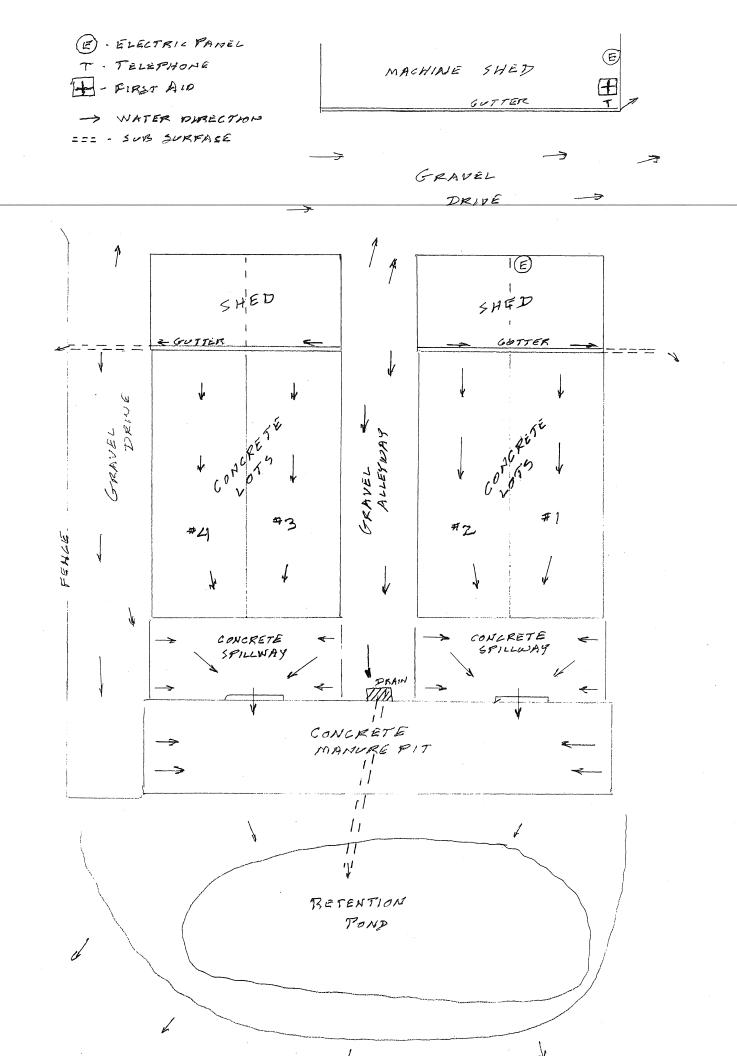
Υ	N	NA	Map Legend	Management/Operational Practices
				Diversions (Terrace-like structures can also function as diversions.)
				Temporary diversions are used only where the drainage area is less than 5 acres.
				Diversions that are part of a pollution abatement system have a minimum capacity for the peak discharge from a 10-year frequency, 24-hour duration storm.
				Diversions designed to protect areas such as buildings, roads, and animal waste management systems have a minimum capacity for the peak discharge from a storm frequency consistent with the hazard involved but not less than a 25-year frequency, 24-hour duration storm. Freeboard is not less than 0.3 ft.
				The location of a diversion and outlet is in compliance with applicable state drainage and water conveyance laws.** Diversions do not outlet on public roads, highways, or other public utility, or the written approval of the appropriate authorities has been obtained.
		\boxtimes		Where movement of sediment into the channel can be a problem, the design includes extra capacity for sediment or periodic removal; and where applicable, such sediment removal is outlined in the operation and maintenance plan.
		\boxtimes		The outlet conveys runoff to a point where outflow will not cause damage.
\boxtimes				Periodic inspections, especially immediately following significant storms, are performed. Damaged components of the diversion are promptly repaired or replaced as necessary.
\boxtimes				Diversion capacity, ridge height, and outlet elevations are maintained, especially where high sediment yielding areas are in the drainage area above the diversion.
		\boxtimes		Each inlet for underground outlets is kept clean and sediment buildup redistributed so that the inlet is at the lowest point.
		\boxtimes		Sediment is redistributed as necessary to maintain the capacity of the diversion.
		\boxtimes		Vegetation on diversions is maintained and trees and brush controlled by hand, chemical and/or mechanical means.
\boxtimes				Machinery is kept away from steep sloped ridges. Equipment operators are informed of all potential hazards.
			3C-1	Hazardous materials storage—Proper storage of hazardous materials. Practices such as covering hazardous materials, or even storing them properly, can have dramatic impacts.
	\boxtimes		3C-2	Fueling areas—Absorbent used for fueling areas will be packaged in small bags for convenient use and small drums will be available for storage. Absorbent materials will not be washed down the floor drain or into the storm sewer.

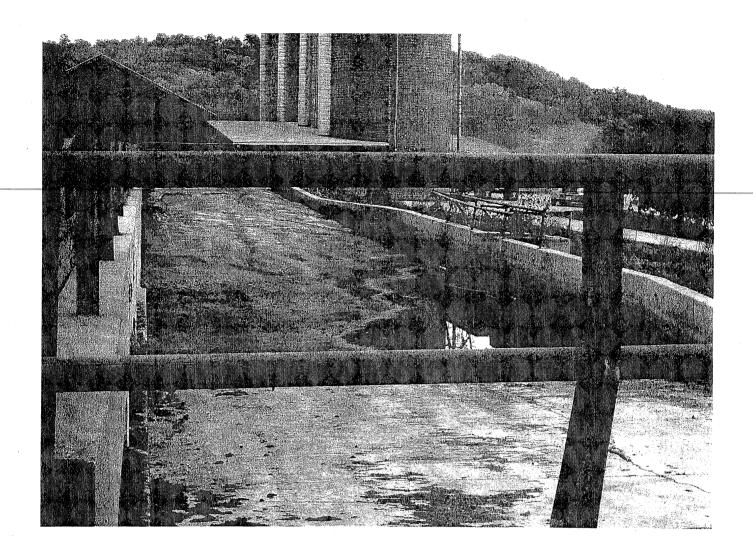
	\boxtimes	3C-3	Chemical spills—Emergency spill containment and cleanup kits will be located at the facility site. The contents of the kit will be appropriate to the type and quantities of chemical or goods stored at the facility.
		3C-4	Other practices (describe)

^{**} See <u>Illinois Drainage Law Part 1</u> on the Workbook CD for details on landowner rights and responsibilities regarding drainage.

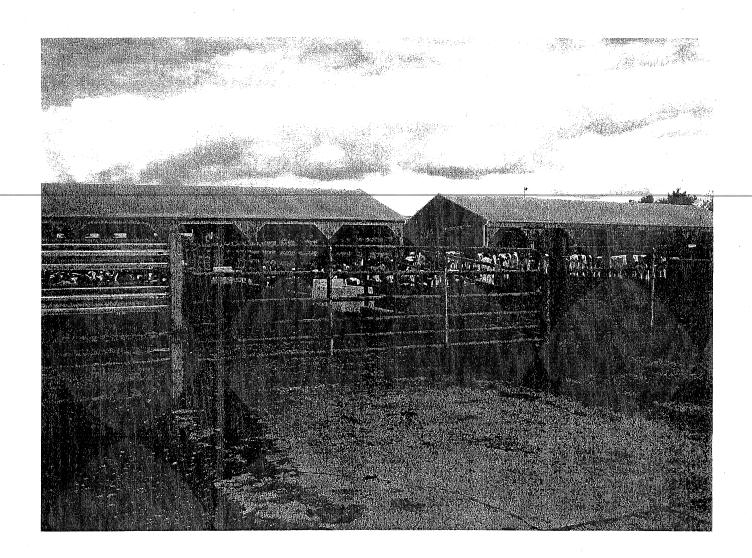
<u>Diversion - NRCS Practice Standard Code 362, Roof Runoff Structure - NRCS Practice Standard Code 558</u>







This photograph shows the concrete holding pit that is below Pens #1, #2, #3 & #4. It has a capacity of over 100,000 gallons. Beneath this pit is an evaporation pond with a 750,000 gallon capacity to collect any overflow. Our management practice is to keep this pit clean. A similar pit and pair of evaporation ponds is below pens #5, #6, #8 & #9. A newly acquired lagoon pump/agitator with a 6" discharge (3,000 gallons/min) allows both pits to be emptied in less than one day.



This is a photograph of the concrete pens #3 & #4 and the sheds for pens #1, #2, #3 & #4. The open areas of these pens are 55' wide x 145' long (approx 1/6 acre each). They have a 2° slope to the south and runoff flows (on concrete) into the concrete pit shown on the following photograph. They are bedded with sawdust, woodchips or corn stalks and the bedding pack is maintained and manure removed weekly.

Appendix C

Illinois Normal Monthly Precipitation For Galena, IL-10C-32-36—1971-2000

Step 4

Historical Climate Data Precipitation Summary

1971-2000 NCDC Normals

	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
GALENA	1.28	1.47	2.46	3.48	3.99	4.73	3.75	4.20	3.81	2.31	2.76	1.85	36.09

Galena is the nearest location (12 miles) with this recorded history

Appendix D

Illinois County 100-yr, 24-hr or 25-yr, 24-hr Rainfall Events

Step 4

Illinois County Precipitation Events

County		1-year	2 year		5 year	<u>10 year</u>	<u>25 year</u>	50 year	'	<u>100 year</u>	
JoDaviess	١	2.57	3.11	1	3.95	4.63	5.60	6.53		7.36	I

Mortality Disposal Operations

Form 3-D

		5-Star Stock Removal - pen, kept on a wood chip pile	& picked up within 24 hours	
		o manure windrows and incorp		
			*	
use act	ed, etc.) composting ivities, temperature i	osted, completely describe (operation and the facilities of readings, approximate poun cipe, etc. Use Forms 3-F ar	operation and maintenand ds of mortalities per mont	e, including daily h, location of compost
incl	ude a copy of the IE	PA incinerator approval, etc	: Use Forms 3-F and 3-6	3 to record mortalities.
buri	ial sites (map showir	a complete description of p ng the sites should be includ ble, etc. Use Forms 3-F and	led), how many pounds a	re buried at each site,

Form 3-E

Mortality Discharge Prevention Best Management Practices

Mark those BMP's listed below that are applicable to any part of your operation.

Υ	N	NA	Map Legend*	Practices
				Location—The facility is down gradient (slope) from all springs and/or wells.
				Location—The animal mortality facility is located outside the 100-year floodplain.
			3E-1	Location —Due to site restrictions, the facility is within a floodplain, and the facility is protected from inundation or damage.
		\boxtimes		Location—The facility is located as close to the source of mortality as practical, considering bio-security issues and the need to keep the facility out of sight of the general public.
		×		Liner—Seepage from mortality facilities could create a potential water quality problem, and a clay liner or other acceptable liner technology is used beneath the facility to contain seepage.
			3E-2	Freezers—Freezer units are sized to accommodate the normal maximum volume of mortality to be expected in the interval between emptying. Freezer volume includes the expected mortality rate of the animal, the period of time between emptying where mortality is given on a per day basis, the average weight of the animal between emptying, and a conversion factor for weight to volume. Capacity calculations are supported by a removal schedule supplied by an integrator or approved vendor.
				Incinerators—Incinerator is dual burning Type 4 (human and animal remains) approved for use within the state. Permit for operation (IEPA Bureau of Air) is on file at the site.
			3E-3	Incinerators—Minimum incinerator capacity is based on the average daily weight of animal mortality and the length of time the incinerator will be operated each day.
		\boxtimes		Incinerators—Incineration ash is properly handled so as not to cause pollution.
		\boxtimes		Incinerators —Ground under incinerator is managed to prevent storm water runoff, either by berms or containment of that runoff.
		\boxtimes		Runoff—All mortality areas are managed to prevent storm water runoff, either by using berms or containment of that runoff.
				Roofs —Facility has a roof to manage storm water and prevent storm water from entering mortality management area.
				Inspection and maintenance —At each operation or use, the animal mortality facility is inspected to note any maintenance needs or indicators of operation problems.
				Biosecurity —Biosecurity concerns are addressed in all aspects of planning, installation, and operation and maintenance of the animal mortality facility.
\boxtimes	□		3E-4	Visual screens—Vegetative screens, topography, and buildings are used to shield the animal disposal facility from public view and to minimize visual impact.
	\boxtimes		3E-5	Safety —Safety devices such as fencing, warning signs, and freezer locks are in place where appropriate.
			3E-6	Other (list)

^{*} Mark the map legend codes on facility/production area maps where appropriate.

Mortality Disposal—Record Sheet

Form 3-F

(Use a separate sheet for each month)

Month/Year: 2006

Date	Number of Hea	Number of Head <u>or</u> Ave. Size (Weight)								
	SEE ATTACHED									
,										
			·							

Monthly Total

^{*}Composting—include sample information (N, P, and K) if spread on fields.

** Burial Method—include a map showing burial locations and # of pounds buried at each site.

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		1	203	557		Twisted Gut	Todd Grim	[†] 5
1			114	543		Pneu	Cattle Productions	7 9
1			6318	528		Clost	Cattle Productions	11
1			5	541		Injury	Cattle Productions	7 8
		1	203	557		Prolapse	Todd Grim	7 6
1			1217	551		Chronic	Cattle Productions] 6
		1	204	558		Pneu	Todd Grim	7
1			1217	551		Clost	Cattle Productions] 7
1			1217	551		Hung Itself	Cattle Productions	8
1		·	4	545		Injury	Cattle Productions	9
		1	111	558		Broken Leg	Todd Grim	_ 10
1			4	564	Х	Injury	Cattle Productions	_ 4
1			5	541		Pneu	Cattle Productions	12
1			64	557		Injury	Todd Grim	_ 10
11			44	564	X	Twisted Gut	Cattle Productions	_ 4
	1		500	565		Unknown	Rock River Ranch] 13
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1		· ·	6	576		Injury	Cattle Productions	1 7
1			5152	561		Misc	Cattle Productions	_
1			113	568		Chronic	Todd Grim	_
-		1	5	573	Х	Clost	Bob Mitchell	4
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11			1718	562		Clost	Cattle Productions	10
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		_				LOCA	TION				
		↓_					ļ				
	DATE		STRS	HFRS-COWS	MIXED	PEN	LOT#				
	2/8/06		1			6	550	Knee Injury	Monroe Sale Barn	Cattle Productions	7
	2/8/06	1	2	ļ		116	559	Resp	Monroe Sale Barn	Cattle Productions	7
	2/8/06	╽.	1			1217	551	Resp	Monroe Sale Barn	Cattle Productions	. 6
	2/8/06	-	1		·	5152	533	Bloat	Monroe Sale Barn	Cattle Productions	10
	2/8/06	+	1			2	548	Resp	Monroe Sale Barn	Cattle Productions	7
	3/13/06	+	1 1			1	535	laina.	Dearth Lystk	Cattle Productions Cattle Productions	10 12
	3/13/06	-		 	1	6162 201	526 552	Injury	Dearth Lvstk Dearth Lvstk	Cattle Productions	10
	3/23/06	╁	1		<u>'</u>	. 1	535	Prolapse Resp	Sale Barn	Cattle Productions	10
	3/23/06	+	1		1	302	554	Resp	Sale Barn	Kevin Peters	8
	3/23/06	1	1		'	2	548	Injury	Sale Barn	Cattle Productions	9
	3/23/06	t	1	 		1217	551	Swelled Joints	Sale Barn	Cattle Productions	. 8
	3/23/06	1	1			116	559	Bloat	Sale Barn	Cattle Productions	9
	4/10/06	+	1	†		402	534	Injury	Dearth Lvstk	Cattle Productions	
	4/10/06	T	1	*		6	550	Injury	Dearth Lvstk	Cattle Productions	
	4/10/06				1	203	557	Prolapse	Dearth Lvstk	Todd Grim	
	4/14/06				1	203	557	Leg injury	Dearth Lvstk	Todd Grim	
	5/8/06		1			1	535	Hip injury	Dearth Lvstk	Cattle Productions	12
	5/11/06		2			402	534		Belmont Auction	Cattle Productions	12
	5/11/06		1			401	553		Belmont Auction	Cattle Productions	11
	5/11/06		1			5	541		Belmont Auction	Cattle Productions	11:
	6/7/06		1			113	546	Injury	Dearth Lvstk	Cattle Productions	
	6/7/06	_	1			64	557	Injury	Dearth Lvstk	Cattle Productions	
	6/22/06	1	2	_		2	562		Belmont Auction	Cattle Productions	
	6/22/06	-	1 1		ļ	62	548		Belmont Auction	Cattle Productions	
	6/22/06	+	1	+		116	559		Belmont Auction	Cattle Productions	
	6/22/06	-	1	+		1217	551		Belmont Auction	Cattle Productions	
	6/29/06	-	11		L	6	550	J	Dearth Lvstk	Cattle Productions	

Yearly Mortality Summary Table

Form 3-G

Year: 2006

	Number	Size (Weight)	Total
Rendered	29	550	29
Composted*			
Incinerated			
Buried**			
Other			
Total	29		29

^{*} Include sample information (N, P, and K) if spread on fields ** Include a map showing burial locations and number of pounds buried at each site.

Mortality Disposal—Record Sheet

Form 3-F

(Use a separate sheet for each month)

Month/Year: A 0	05			4	ue Si	tar
☐ Compost* ☐	Rendered	☐ Incinerated [☐ Burial**	☑ Other ☑	tock	tar Lemoval
Date		Number of Head o	or Ave. Size (W	eight)		Total
1						
Dee	aeta	ched	Theo +			
		/	,			
				· · · · · · · · · · · · · · · · · · ·		
						·
					·	
		-				
						1.

Monthly Total

^{*}Composting—include sample information (N, P, and K) if spread on fields.

** Burial Method—include a map showing burial locations and # of pounds buried at each site.

					0000000			
-			CAT		SPRINGS FA		102	
	П		<u> </u>	1	LEGUINEGE	VLD III Z	1	T
		2005 Dea	d Animals					
	+-+		were rem	oved h	V	 	<u> </u>	
	+		Stock Rer		y	 		
ļ	\vdash	rive Star	Stock Kei	novai		<u> </u>		
	\sqcup		•		,			
	Ш		CURRENT					
		·	COUNT					
			52					
			17					
			16		-			
			85					
			Deads		FARI		Under 500 #	Death Cause
ļ			`		LOCATI	ON		
DATE	\vdash	STRS	HFRS-COWS	MIXED	PEN	LOT#		
1/11/05	\vdash	1	,		1	499		Pneu
1/12/05		1			6	489		Clost
1/15/05		1			5354	505		Pneu
1/17/05	\vdash	1			4012	492		Injury
1/20/05 1/21/05	\vdash	1		. 1	202 302	504 500		Pneu
1/21/05	\vdash	1			6162	485		Pneu Bloat
1/25/05	\vdash			1	201	518		Pneu
1/26/05				1	204	510		Pneu
1/28/05			1		114	506		Pneu
2/1/05 2/3/05	\vdash	1			55	496		back injury
2/4/05		1 1			6162 34	485 514		Pneu back injury
2/12/05	+	- i - t	-		3019	491		Pneu
2/14/05				1	204	510		Brainer
2/16/05				1	201	518		Pneu
2/27/05	_		1		114	506		Aneurism
3/1/05	-+			1	202	504		Tetnus
3/3/05 3/10/05		1		1	6 201	489 518	··	Bacterial inf. Bloat
3/15/05			1 1		115	507		Calving problems
3/24/05		1			302	500		Pneu
4/15/05		1			402	519		Injury
4/20/05	_	1			52	498		Clost
4/21/05 4/26/05	\dashv	1 1			55 2	520 487		Broken leg Leg Injury
5/8/05	+		1		302	523		Clost
5/9/05	$\neg \dagger$			1	111	509		Lightning
5/9/05		1			2	487		Broken leg
5/15/05	\perp	1			5354	505		Pneu
5/16/05	-		1		61A	525		Pneu Pneu
5/16/05 5/22/05	+		1	1	402 9	519 524		Clost
5/24/05	\dashv	1			6	489		Broken leg
5/24/05	\dashv				1	521	Х	Chronic
5/26/05	\Box	1			301	499		Injury
5/28/05	\Box	1			3	526	Х	Injury
6/4/05	_		1		402	51		Clost IBR Bloat
6/4/05	+	1		1	55 55	524 520		Pneu
6/6/05 6/13/05	+	1			402	519		Prolapse
6/13/05	+	1 1			61	525		Injury
6/13/05		1			61	525		Old age
6/15/05		1			61	525		Clost
6/26/05		1			34	526	Х	Chronic

		Deads		FAR	M	Under 500 #	Death Cause
				LOCATION			
					1		
DATE	STRS	HFRS-COWS	MIXED	PEN	LOT#		
6/28/05		2		302	523		Heat
7/4/05			1	116	504		Pneu
7/5/05		1		402	519		Injury
7/7/06	1			61	525		Pneu
7/7/06	1			34	526	X	Chronic
7/13/06	1			301	499		Pneu
7/14/06	1			9	534	Х	Clost
7/16/06	1			5152	533	Х	Chronic
7/18/06	1			34	526		Chronic
7/25/06	1			5152	533	Х	Chronic
7/25/06	1			34	526	Х	Chronic
7/30/06		1		118	531		Injury
8/5/06			1	114	518		Chronic
8/8/06	1			118	531		Chronic
8/10/06		1		202	532		Heat
8/16/06			1	8	524		Clost
8/19/06	1			301	499		Chronic
8/25/05	1			6162	526		Chronic
9/10/06			1	115	518		Chronic
9/10/06	1			6	529		Chronic
9/10/06	1			6	529		Hung Itself
9/19/05				6	529		Chronic
9/19/05				5354	521		Chronic
9/21/05		1		302	540		Chronic
10/7/06		1		402	539		Septicemia
10/7/06		1		402	539		Clost
10/13/06		1		302	540		Injury
10/14/06	1			5152	533		Chronic
10/22/05	1			6	550	Х	Clost
10/23/05	1			1	535		Injury
10/23/05	1			1217	551	Х	Chronic
10/24/05	1			3	542	Х	Water Belly
11/5/05	1			3	542		Chronic
11/5/05	1			6162	526		Chronic
11/7/05	1		1	302	554	Х	Viral Pneu
11/14/05		1		202	556	X	Chronic
11/20/05	1			5354	521		Chronic
12/2/05	1			4	545		Chronic
12/20/05	1			6162	526		Clost
12/21/05	1			301	549		Clost
12/26/05			1	203	557	Х	Injury
12/26/05	1			61	526		Clost

Yearly Mortality Summary Table

Form 3-G

Year: <u>2005</u>

	Number	Size (Weight)	Total
Rendered			
Composted*			
Incinerated			
Buried**			
Other - Five Star Stock Removal	85		
Total	85		85

^{*} Include sample information (N, P, and K) if spread on fields
** Include a map showing burial locations and number of pounds buried at each site.

Form 3-H

Chemical Wastes and Raw Materials Discharge Prevention

Mark those BMP's listed below that are applicable for your operation.

Y	N	NA	Map Legend*	Construction and Post-Construction Storm Water Pollution Prevention Plan
\boxtimes			3H-1	Storage containers for gasoline, diesel fuel, kerosene, and other liquid fuels are free of leaks.
\boxtimes			3H-2	Vehicle and portable container filling areas near the fuel storage containers are constructed so as to allow immediate containment and cleanup of fuel spills.
			3H-3	Specific areas are designated for equipment maintenance and repair, and the areas include appropriate waste receptacles for spent oils, gasoline, grease and solvents. Housekeeping plan includes regular collection and disposal schedules.
				Storage areas are protected from storm water in accordance with the manufacturers' guidelines for the following materials:
			3H-4	Oils, grease, and solvents
		\boxtimes	3H-5	Paints, stains, brush cleaners and similar materials
		\boxtimes	3H-6	Crop protection chemicals (herbicides, pesticides)
			3H-7	Fertilizers (liquid, dry bulk, dry bagged)
		\boxtimes	3H-8	Animal treatment non-medicinal (disinfectants, foot baths, dips)
		\boxtimes	3H-9	Cleaning and sanitizing materials
\boxtimes			3H-10	Pharmaceuticals
		×.	3H-11	Acids or other potentially toxic water pollutants (list)
				The following sites are covered (e.g. roofed or other rainproof covering) or are constructed so as to drain to regularly maintained sediment control devices designed to accommodate such discharges:
\boxtimes			3H-12	 Materials handling equipment storage sites. Example: Bucket loader used for silage and commodities loading, mixing. Show where loader is stored, and if stored outside, what happens to storm water contaminated with raw materials.
			3H-13	 Shipping and receiving areas. Example: a concrete apron outside the shed has storm water diverted around it and water off the apron goes into a grassed infiltration area.
		\boxtimes	3H-14	 Storage for raw materials used in the manufacture of concrete including sand, aggregate, cement, water and admixtures
		\boxtimes	3H-15	Storage for other raw construction materials (list)
		\boxtimes	3H-16	Storage for other waste generated off-site

				The following raw materials or products are handled at the facility and are covered (e.g. roofed or other rainproof covering) or storages are constructed so as to drain contaminated storm water to appropriate containment areas:	
	\boxtimes		3H-17	• Feed	
		\boxtimes	3H-18	• Whey	
		\boxtimes	3H-19	 Silage leachate. Example: Silage leachate is directed to a temporary storage tank that is emptied as necessary and contents land-applied. 	
		\boxtimes	3H-20	Other leachate (describe)	
	×		3H-21	Byproducts used for feed. Example: Distillers grains are brought in by semi-load and stored on a concrete pad; storm water from the pad is drained to an earthen storage for later land application.	
		\boxtimes	3H-22	Milk Example: Non-saleable milk is land-applied at or below agronomic rates.	
		\boxtimes	3H-23	• Eggs	
		\boxtimes	3H-24	Other (list)	
\boxtimes				Routine housekeeping plan includes cleanup of spilled raw materials so as to minimize storm water contamination. Example: Cleaning up spilled feed beneath bulk bins.	
\boxtimes			3H-25	Equipment wash down areas are located on-site only in areas which drain to regularly maintained storages designed to accommodate such discharges. Example: Truck wash for hauling animals drains to feedlot holding pond.	
				The storm water pollution prevention plan for access roads used to bring in or carry out raw materials, waste materials, by-products, or products that are used or created by the facility consists of:	
				 Any spilled materials on or alongside the road(s) are routinely cleaned up and properly disposed of 	
\boxtimes	\boxtimes			 Vegetation in drainage channels alongside the road(s) is maintained by mowing, sediment removal, and/or re-seeding as required 	
\boxtimes				Adequately maintained sanitary facilities (toilets and septic systems) are provided.	
			3H-26	Other practices (list)	

^{*} Mark the map legend codes on facility/production area maps where appropriate.

Temporary Manure Stack Discharge Prevention

Form 3-J

Mark those BMP's listed below that are applicable for this part of your operation.

Y	N	NA	Map Legend*	Practices	
				Location—Temporary manure stack is located down gradient (slope) from wells and springs.	
			3J-1	Location—Manure stack is located over soil surface that is highly impermeable and no aquifer material is within five feet of the bottom of the stack.	
\boxtimes				Location—Manure stack is constructed more than 100 feet from non-potable water wells, 200 feet from potable water supply wells, and 400 feet from community water supply wells.	
				Operation—Manure stack is completely emptied within a six-month period.	
\boxtimes			3J-2	Water diversions—Manure stack has adequate diversion dikes, walls or curbs that will prevent excessive outside surface waters from flowing through the stack area.	
				Runoff—There is negligible outside surface water that can flow through or otherwise contact the manure stack.	
	\boxtimes		3J-3	Runoff disposal—The runoff from the manure stack drains to a livestock waste-handling facility.	
	\boxtimes		3J-4	Cover—Temporary manure stack is covered with a roof, tarp, or other device to keep precipitation off the manure.	
		\boxtimes	3J-5	Liner—Manure stack is located over shallow aquifer material, in a karst area, or within 400 feet of a natural depression in a karst area; and is lined with appropriate clay, geosynthetic, or other liner material to protect groundwater.	
			3J-6	Other practices (describe)	

^{*} Mark the map legend codes on facility/production area maps where appropriate.

Form 3-J Map Legend - Manure Stack Location - Water Diversion

Manure Storage Description and Dimensions

Form 4-A

Storage name: COLD SPRINGS FARM	•
Type of storage: (check one)	
☐ Pit under slats	☐ Single-stage lagoon (treatment and storage)
☐ Outside earthen embanked storage	Multi-stage lagoon (treatment, first stage)
☐ Above ground tank (Example: Slurry store)	 Multi-stage lagoon (treatment/storage, second or later stage)
☐ In-ground tank (Example: concrete round or rectangular tank)	 Septic tank or other storage (Example: for egg processing water)
☑ Bedded pack in building	Dry manure storage forming lower part of two-sto building (Example: poultry layer hi-rise; swine hi-ri with composting)
☐ Solid stack (Example: outside stack with drainage to vegetative filter)	☐ Manure storage building for dry manure
Semi-solid manure storage with porous dam drains (Example: dairy picket dam)	Reception pits and transfer facilities
	Other
Description and dimensions Refer to attached	Diagram Refer to attached
	Diagram of manure "management train." For more comp systems, see Appendix B.
Certifications and registrations for this manure stora Construction Lagoon Cher Other	age (store originals in Archive section of Plan): iner
This storage takes ☐ runoff ☐ wastewater ☐ ri	nse water
from (source).	
Operational details (Example: scheduling for manure remprocedures and maintenance, etc.) (Step 11 covers practions.) When manure can not be applied ue to weather, crops, etc.) Compost the manure as described previously	tices when manure cannot be applied due to weather
2) Store manure in an area (100,000 sq ft) that is bermed	•
2) Store manure in an area (100,000 sq tt) that is bermed	
2) Store manure in an area (100,000 sq tt) that is bermed	

Temporary Manure Stack Discharge Prevention

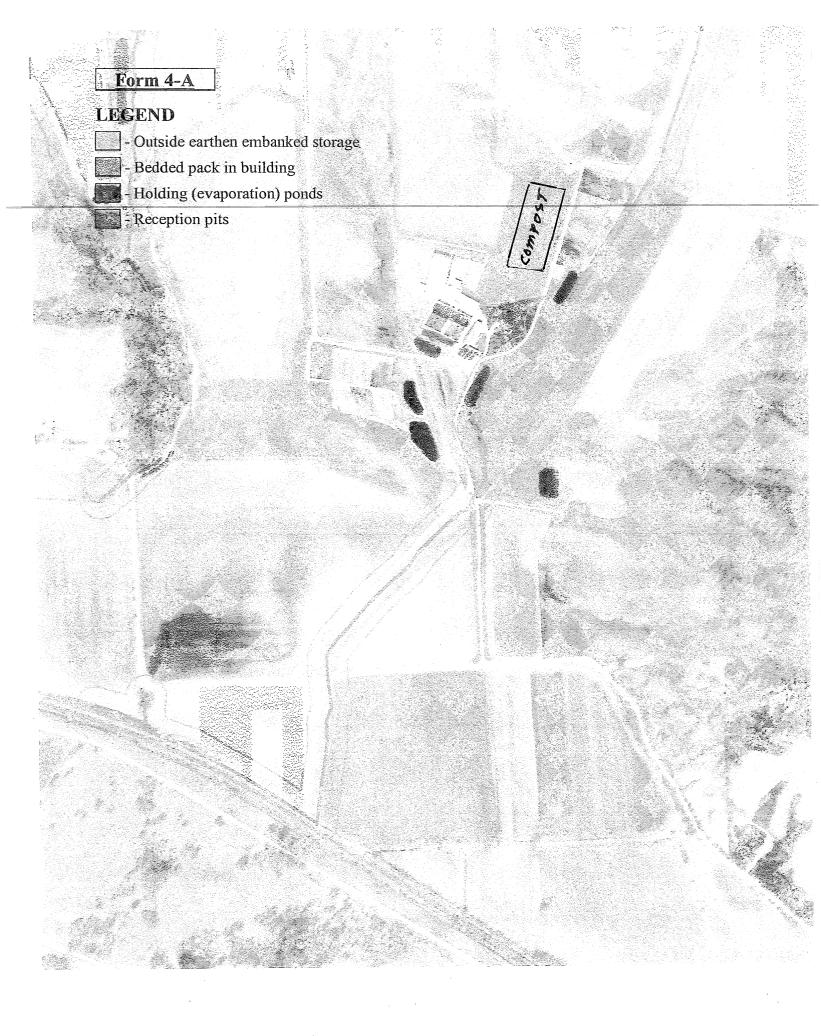
Form 3-J

Mark those BMP's listed below that are applicable for this part of your operation.

Y	N	NA	Map Legend*	Practices
\boxtimes				Location—Temporary manure stack is located down gradient (slope) from wells and springs.
\boxtimes			3J-1	Location—Manure stack is located over soil surface that is highly impermeable and no aquifer material is within five feet of the bottom of the stack.
\boxtimes	. 🗆			Location—Manure stack is constructed more than 100 feet from non-potable water wells, 200 feet from potable water supply wells, and 400 feet from community water supply wells.
\boxtimes				Operation —Manure stack is completely emptied within a six-month period.
\boxtimes			3J-2	Water diversions—Manure stack has adequate diversion dikes, walls or curbs that will prevent excessive outside surface waters from flowing through the stack area.
				Runoff—There is negligible outside surface water that can flow through or otherwise contact the manure stack.
	\boxtimes		3J-3	Runoff disposal—The runoff from the manure stack drains to a livestock waste-handling facility.
	\boxtimes		3J-4	Cover—Temporary manure stack is covered with a roof, tarp, or other device to keep precipitation off the manure.
		\boxtimes	3J-5	Liner—Manure stack is located over shallow aquifer material, in a karst area, or within 400 feet of a natural depression in a karst area; and is lined with appropriate clay, geosynthetic, or other liner material to protect groundwater.
			3J-6	Other practices (describe)

^{*} Mark the map legend codes on facility/production area maps where appropriate.

The attached map identifies the location of the temporary manure stack. This area has been excavated, leveled and bermed to hold any manure within its banks and divert water flow to the outside of the stack area.



	0FM-4-A	
	GEND Outside earthen embanked storage	
	Bedded pack in building Holding (evaporation) ponds Reception pits	
en en		

NATURAL RESOURCES CONSERVATION SERVICE CONSERVATION PRACTICE STANDARD

COMPOSTING FACILITY

(No.) CODE 317

DEFINITION

This is a treatment component of an agricultural management system for the biological stabilization of organic material.

PURPOSES

To reduce the pollution potential of organic agricultural wastes to surface and ground water.

CONDITIONS WHERE PRACTICE APPLIES

This practice applies where:

- Organic waste material is generated by agricultural production or processing;
- A composting facility is a component of a planned agricultural waste management system; and,
- A composting facility can be constructed, operated and maintained without polluting air and/or water resources.
- The composting facility is one of the following types:
 - 1. Windrow
 - 2. Static Pile
 - 3. In-vessel

CRITERIA

General Criteria Applicable To All Purposes

Laws and Regulations. The installation and operation of the composting facility shall comply with 510 ILCS 77/1, Livestock Management Facilities Act and all other federal, state, and local laws, rules, and regulations.

Safety. Safety and personal protection features and practices shall be incorporated

into the facility and its operation as appropriate to minimize the occurrence of equipment hazards and biological agents during the composting process.

Facility Siting. The bottom elevation of the composting facility shall be above the seasonal high water table and on soils with slow to moderate permeability that does not allow materials to contaminate the ground water, and meets all applicable regulations, or the facility shall be installed on concrete slabs or other appropriate liners.

Ideally, compost facilities should be located outside of floodplains. However, if site restrictions require location within a floodplain, they shall be protected from inundation or damage from a 25-year flood event, or larger.

Locate compost facilities so prevailing winds and landscape elements such as building arrangement, landforms, and vegetation minimize odors and protect the visual resource.

Direct surface runoff away from the compost facility. Direct contaminated runoff from compost facilities to an appropriate storage or treatment facility for further management.

The facility shall have all year, all weather access.

Compost Mix. Develop a compost mix that encourages aerobic microbial decomposition and avoids nuisance odors.

Carbon-Nitrogen Ratio. The initial compost mix shall result in a Carbon to Nitrogen ratio between 25:1 and 40:1. Compost with a greater carbon to nitrogen ratio can be used if nitrogen immobilization is not a concern.

Where more than two ingredients are to be blended, the two main ingredients are to be used in the analysis for the desired C:N and mixed accordingly. Adding up to 50% by

Conservation practice standards are reviewed periodically, and updated if needed. To obtain the current version of this standard, contact the Natural Resource Conservation Service.

weight of the other ingredients to improve workability and air movement is permissible as long as the C:N of the added ingredient does not exceed the target C:N of the compost.

Carbon Source. A dependable source of carbonaceous material with a high carbon to nitrogen ratio (C: N) shall be stored and available to mix with nitrogen rich waste materials. Wood chips, sawdust, peanut hulls, straw, corn cobs, bark peat moss, and well bedded horse manure are good sources of carbon.

Bulking Materials. Add bulking materials to the mix as necessary to enhance aeration.

The bulking material may be the carbonaceous material used in the mix or a non-biodegradable material that is salvaged at the end of the compost period. If a non-biodegradable material is used, provision shall be made for its salvage.

Moisture Level. Provision may be made for maintaining adequate moisture in the compost mix throughout the compost period within the range of 40 to 65 percent (wet basis).

In high precipitation climatic regions, care shall be taken to prevent excess moisture from accumulating in the compost. Facility covers may be required to provide for a suitable product

Temperature of Compost Mix. Manage the compost to attain and then maintain the internal temperature for the duration required to meet management goals.

When the management goal is to reduce pathogens, the compost shall attain a temperature greater than 130°F for at least 5 days as an average throughout the compost mass.

This temperature and time criterion may be achieved during either primary or secondary composting stages or as the cumulative time of greater than 130°F in both stages.

The material should remain at or above 110 °F for the remainder of the designated composting period.

Turning/Aeration. The frequency of turning/aeration shall be appropriate for the composting method used, and to attain the desired amount of moisture removal and temperature control while maintaining aerobic degradation.

Facility Type. Selection of the composting facility/method shall be based on the availability of raw material, the desired quality of final compost, equipment, labor, time, and land available.

See National Engineering Handbook, Part 651 Agricultural Waste Management Field Handbook, Chapter 10 for design of each type of facility.

Facility structural elements such as permanent bins, concrete slabs, and roofs shall meet the requirements of Conservation Practice Standard 313, Waste Storage Facility.

Facility Size. Size the compost facility to accommodate the amount of raw material planned for active composting plus space required for curing.

Composting facilities for the purpose of processing animal carcasses are to include a primary composting unit into which alternate layers of low moisture content manure (unusual poultry manure), carbon source material (straw is common), and dead animal carcasses are placed. A secondary composting unit is often necessary to complete the composting process.

Dimensions selected for elements of the compost facility shall accommodate equipment used for loading, unloading, and aeration.

Sizing of facilities for composting dead animals shall be based on normal mortality loss records for the operation. Or, if not available, locally established mortality rates for the type of operation shall be used.

Compost Period. Continue the composting process long enough for the compost mix to reach the stability level where it can be safely stored without undesirable odors. It shall also possess the desired characteristics for its use, such as lack of noxious odor, desired moisture content, level of decomposition of original components and texture. The compost period shall involve primary and secondary composting as required to achieve these characteristics.

Test the finished compost as appropriate to assure that the required stabilization has been reached.

Use of Finished Compost. Land application of finished compost shall be in accordance with Conservation Practice Standards 590, Nutrient Management, and 633, Waste Utilization.

CONSIDERATIONS

Develop an initial compost mix with a Carbon to Nitrogen ratio of at least 30:1 to reduce most offensive odors.

Minimize odors and nitrogen loss by selecting carbonaceous material that, when blended with the nitrogenous material; provides a balance of nutrients and porous texture for aeration.

Maximize solar warming by aligning piles north to south configured with moderate side slopes.

In humid areas, do not locate piles (windrows) across the slope to prevent ponding and sogginess.

Protect compost facilities from the wind in cold climates. Wind protection may help prevent excess drying of the compost in dry climates.

Composting operations require close management. Management capabilities of the operator and availability of labor should be assessed as part of the planning and implementing process.

Appropriate equipment must be available for initial mixing, turning, and hauling composted material and carbonaceous material.

Appropriate long stem thermometers should be available for managing the composting material.

PLANS AND SPECIFICATIONS

Plans and specifications shall be prepared in accordance with the criteria of this standard and shall describe the requirements for applying the practice to achieve its intended use.

OPERATION AND MAINTENANCE

Develop an operation and maintenance plan that is consistent with the purposes of this

practice, and the life of the composting facility. Recipe ingredients and sequence that they are layered and mixed shall be given in the plan.

Safety requirements for operation of the composting facility shall be provided.

Manage the compost piles for temperature, odors, moisture, and oxygen, as appropriate. Make adjustments throughout the composting period to insure proper composting processes.

Closely monitor temperatures above 165°F. Take action immediately to cool piles that have reached temperatures above 185°F.

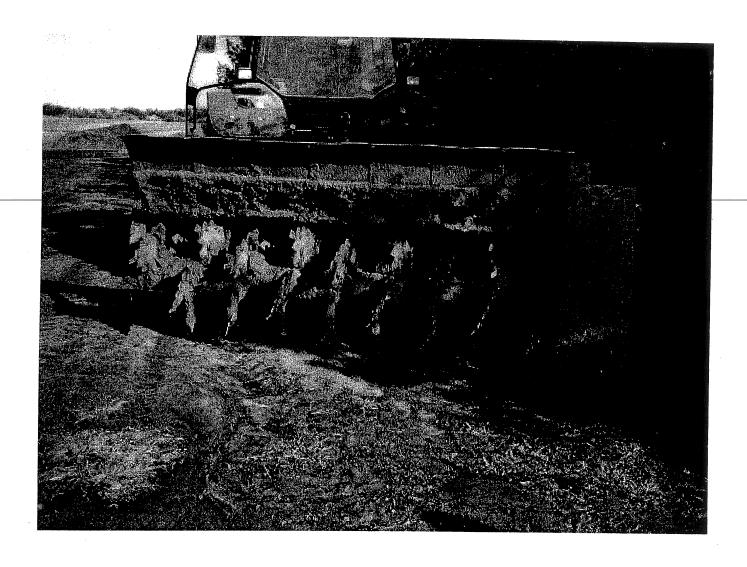
The operation and maintenance plan shall state that composting is a biological process. It requires a combination of art and science for success. Hence, the operation may need to undergo some trial and error in the start-up of a new composting facility.

REFERENCE

National Engineering Handbook, Part 651 Agricultural Waste Management Field Handbook, Chapter 10.



This compost area is approximately 130' x 350'. The slope is $< 2^{\circ}$ and we can be processing up to seven windrows. With an adequate carbon source and equipment capable of the task, we can convert manure waste to stable organic material in six weeks.



This is the Brown Bear composting/aerator.



And this is the Brown Bear composting/aerator in action. We can work about 750 tons of compost per hour. Windrows are turned daily for the first seven days, then every other day in weeks 2 & 3. Then it is twice a week.

Manure Sample Analysis Results—Summary of All Manure Storages

Form 5-A

Year: 2006

Attach lab results to this form

Storage name (same name as Form 4-A)	Lab Sample date Farm sampling date	Sampling method	Total N	Ammonium-N	P ₂ O ₅ Total P	K ₂ O Total K	% Total Solids	Other nutrients (list) (Optional)	Notes	Sampling supervised by:	Lab name and ID#
	M/D/Y	Insert code	□ lb/1000 gal. ⊠ lb/ton □ ppm □ percent	☐ lb/1000 gal. ☐ lb/ton ☐ ppm ☐ percent	□ lb/1000 gal. ☑ lb/ton □ ppm □ percent	☐ lb/1000 gal. ☑ lb/ton ☐ ppm ☐ percent		☐ lb/1000 gal. ☐ lb/ton ☐ ppm ☐ percent	Comment here on possible reasons for any unusual sample numbers. Feeding changes, water dilution, etc.	Check (√) if this person is a Certified Livestock Mgr	
Dirt Pens	11/15/06	MX	12.34		11.3	6.52					UW
Cmnt Pen	11/15/06	MX	12.05		8.97	11.87				\boxtimes	UW
Stack 50	8/8/06	S	4.39		6.24	.18			Storage pile	\boxtimes	UW
Row 1	8/8/06	S	9.45	<u> </u>	9.69	3.55			Start of Compost	\boxtimes	UW
Row 2	8/8/06	S	14.23	-	19.29	6.45			New windrow	\boxtimes	UW
Row 3	8/8/06	S	7.58		8.23	2.16			Start of Compost	\boxtimes	UW
Row 4	8/8/06	S	7.26		7.17	1.54			25% composted	\boxtimes	UW
Dirt Pens	9/13/05	S	14.48		7.58	9.93				\boxtimes	UW
Cmnt Pen	9/13/05	S	16.07		11.42	11.9					UW
Conc Pit	9/13/05	LC	5.69		2.17	2.31			Pit below 1-4		UW
Pond	9/13/05	LS	.2		.04	.94			Pond @ 100's		UW

SAMPLING METHODS (INSERT APPROPRIATE CODE LETTERS)

	S: Representative s	ample of solid	ar agrai aglid	manura fram	driatook	P ~ 4 4 ~ 4	nook oto
•	3 . Rebiesentative s	amble of Solid	or semi-sona	manure nom	urv Stack.	bedued	Dack, etc.

MX: Mixed sample after agitation

LS: Lagoon supernatant (liquid)

TC: Top to bottom composite from tank, pit, etc.

LG: Lagoon sludge

Stratified sample of tank, pit, etc. TT top, TM middle, TB bottom

LC: Lagoon supernatant and sludge combined sample

O: Other (explain) ____

MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION University of Wisconsin-Extension University of Wisconsin-Madison Soils Department, Madison, WI

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523

Report #: 10058

Lab #: 13380-1338

Date received: 11/13/2006

Account: 555901

Client: Cold Springs Farm

County: Wood

Date processed: 11/15/2006

Send to:

Report also available online at http://uwlab.soils.wisc.edu/reports.

Lab #: 10058 Access code: p8uc

Sample Information

Sample Name: Dirt 13381

Material: Beef

Type of Storage: other

Storage System: Solid

Type of Bedding: corn stalks

Laboratory Analysis

Moisture: 38.30% Dry Matter: 61.70%

Estimated Available Nutrient Credits for Manure:

	Total Nutrients Ibs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs Ibs/ton	If Applied 3 Consecutive Yrs Ibs/ton
Total Nitrogen (Injected)	12.34	4.32	5.55	6.17
Total Nitrogen (Surface Applied)	12.34	3.09	4.32	4.94
Total Phosphorus as P $_2$ O $_5$	11.30	6.78	7.91	8.48
Total Potassium as K ₂ O	6.52	5.22	5.87	6.19
Sulfur	2.84	1.70	1.99	2.13
Estimated Value of Available Nutrients in Surface	\$5.10	\$6.18	\$6.73	

Additional Information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.38/lb

P₂Q (Triple Superphosphate) \$0.35/lb

K₂O (Potash) \$0.21/lb

S (Elemental Sulfur) \$0.27/lb

WEB COPY page 2 of 2

MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION University of Wisconsin-Extension University of Wisconsin-Madison Soils Department, Madison, WI

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523

Report #: 10058

Lab #: 13380-1338

Date received: 11/13/2006

Account: 555901

Client: Cold Springs Farm

County: Wood

Date processed: 11/15/2006

Send to:

Report also available online at http://uwlab.soils.wisc.edu/reports.

Lab #: 10058 Access code: p8uc

Sample Information

Sample Name: Cement 13380

Material: Beef

Type of Storage: other

Storage System: Solid

Type of Bedding: corn stalks

Laboratory Analysis

Moisture: 74.90% Dry Matter: 25.10%

Estimated Available Nutrient Credits for Manure:

	Total Nutrients lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs Ibs/ton	If Applied 3 Consecutive Yrs ibs/ton
Total Nitrogen (Injected)	12.05	4.22	5.42	6.03
Total Nitrogen (Surface Applied)	12.05	3.01	4.22	4.82
Total Phosphorus as P ₂ O ₅	8.97	5.38	6.28	6.73
Total Potassium as K ₂ O	11.87	9.50	10.68	11.28
Sulfur	2.31	1.39	1,.62	1.73
Estimated Value of Available Nutrients in Surface Applied Manure		\$5.39	\$6.48	\$7.03

Additional Information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.38/lb

P₂Q (Triple Superphosphate) \$0.35/lb

K₂O (Potash) \$0.21/lb

UW Soil & Forage Analysis Lab 8396 Yallowslone Drive Marshfleid, WI 54449 (715) 387-2523

MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION
University of Wisconsin-Madison
University of Wisconsin-Madison
Soils Department, Medieon, Wi

Report #: 6150

Leb #: 6212

Date received: 8/4/2006

Account: 557368

County: Wood

Date processed: 8/8/2006

Send to:

Report also available online at http://uwlab.solls.wisc.edu/reports.

Lab #: 8150 Access code: cqsg

Sample Name: 50's

Material: Beef

Type of Storage: other

Storage System: Solld

Type of Bedding: sawdus/shavings/bark

Moisture: 24 30%

Dry Matter: 75.70%

Estimated Available Nutrient Credits for Manure;

	Total Nutrients Ibs/ion	in 1st Year of Application los/ton	N Applied 2 Consecutive Yes lbs/lon	ir Applied 3 Consecutive Yre Iba/Ian
Total Nitrogen (injected)	4.39	1.54	1.98	2.20
Total Nitrogen (Surface Applied)	4.39	1,10	1.54	1.76
Total Phoaphorus as P _z O ₉	6.24	3.74	4,37	4,60
Total Potassium as K ₁ O	0.18	0.14	0.16	0,17
Sulfur	2.73	1.64	1.91	2.05
Estimated Value of Available Nutrients in Surface	ce Applied Manure	\$2.20	\$2,67	\$2.90

Additional information

1 Value based on commercial fertilizer costs as of 9/1/2005;

N (urea) \$0.38/lb

P2Q (Tripia Superphosphate) \$0.35/lb

 K_2O (Potesh) \$0,21/lb

S (Elemental Sulfur) \$0.27/lb

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MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION
University of Wisconsin-Extension
University of Wisconsin-Madison
Soils Department, Madison, Wil

UW Soll & Forage Analysis Lab 8396 Yellowstone Orive Marsh(leld, WI 54449 (715) 387-2523

Report #: 8146

Lab #: 6208

Date received: 9/4/2006

Account: 557368

County: Wood

Date processed: 8/8/2006

Sand to:

Report also available online at http://uwlab.solla.wisc.edu/reports.

Lab #: 8146 Access code: thbn

Sample Name: Row #1

Malerial: Beef

Type of Storage: other

Storage System: Solid

Type of Bedding: sawdust/shavings/bark

Molatura: 29.50%

Dry Maller: 70.50%

Estimated Available Nutriont Credits for Manure:

	Total Nutrianta ibs/lon	In 1st Year of Application lbs/ton	II Applied 2 Consecutive Yrs Ibarion	If Applied 3 Consecutive Yrs Ibs/Ion
Total Nitrogen (injected)	9.45	3.31	4.25	4.73
Total Nitrogen (Surface Applied)	9.45	2,36	3.31	3.78
Total Phosphorus as P_2O ,	9.69	5.81	6.78	7.27
Total Potassium as K ₂ O	3.55	2.84	3,19	3.37
Sultur	2,54	1,52	1.78	1.91
Estimated Value of Available Nutrients in Surface	ce Applied Manure	\$3.94	\$4.78	\$5,21

Additional information

1 Value based on commercial fertilizer coats as of 9/1/2005:

N (urea) \$0.38/b

P2Q (Triple Superphosphale) \$0.35/lb

K₂O (Potash) \$0.21/lb

UW Soil & Forage Analysis Lab 8396 Yellowstone Orive Marshilald, WI 54449 (715) 387-2523

MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION
University of Wisconsin-Extension
University of Wisconsin-Madison, 80lfs Department, Madison, WI

Report #: 8147

Lab #: 6209

Date received: 8/4/2006

Account: 557368

County: Wood

Date processed: 8/8/2008

Send to:

Concrete per

Report also available online at http://uwlab.solla.wiac.edu/reports.

Lab #: 6147 Access code: 96gp

SempleInformation

Sample Name: Row #2

Material: Beef

Type of Storage: other

Storage System: Solld

Type of Bedding: sawdusUshavings/bark

Moisture: 27.40%

Dry Matter: 72.60%

Estimated Available Nutrient Credits for Manure:

	Total Nutriants bs/ton	In 1st Year of Application Iba/ton	If Applied 2 Consecutive Yes Iberion	If Applied 3 Cansecutive Yrs Ibs/100
Yolal Nitrogen (injected)	14.23	4.98	8.40	7.12
Total Nitrogen (Surface Applied)	14.23	3.56	4,98	5,69
Total Phosphorus as P2O ,	19.29	11.57	13.50	14.47
Total Potassium as K,O	6.45	5.16	5.00	6.13
Sulfur	3.05	1.83	2.14	2.29
Estimated Value of Available Nutrients in Surface	e Applied Manure	\$6.97	\$8.41	\$ 9.13

Additional Information

1 Value based on commercial lentilizer costs as of 9/1/2005:

N (urea) \$0.38/lb

P.Q (Triple Superphosphale) \$0.35/lb

K₂O (Potash) \$0.21/lb

MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION University of Wisconsin-Extension University of Wisconsin-Madison Soils Department, Madison, Wi

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523

Raport #: 8148

Lab #: 6210

Date received: 8/4/2008

Account: 557368

County: Wood

Date processed: 8/6/2008

Send to:

Report also available online at http://uwiab.aoile.wiec.edu/reporte.

Lab #: 8148 Access code: r344

MARKET . aller Bally Samp(sin/crimation

Sample Name: Row #3

Material: Beef

Type of Storage: other

Storage System: Solid

Type of Bedding: sawdusUshavings/bark

Labdialor Andlysis

Moisture: 35.80% Dry Matter: 64.20%

Estimated Available Nutrient Credits for Manure:

	Total Nutrienta	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs Ibs/Ion	If Applied 3 Geneachilya Yra Iba/ton	
Total Nitrogen (Injected)	7.58	2,65	3.41	3.79	
Total Nitrogen (Surface Applied)	7.58	1.90	2.65	3.03	
Total Phosphorus as $P_7 O_5$	6.23	4.94	5.76	6.17	
Total Potassium as K _s O	2.16	1.73	1,94	2.05	
Sulfur	2.44	1,46	1.71	1.83	
Estimated Value of Available Nutrients in Surface	e Applied Manure	\$3.20	\$3.90	\$4.23	

Additional Information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.38/lb P₂Q (Triple Superphosphate) \$0.35/lb K₂O (Potash) \$0.21/lb

MANURE ANALYSIS REPORT

COOPERATIVE EXTENSION University of Wisconsin-Emension University of Wisconsin-Madison Solls Department, Madison, Wi

官國 \$\$\$\$\$\$\$\$\$\$\$\$

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523

Report #: 8149

Lab #: 6211

Date received: 8/4/2008

Account: 557368

County: Wood

Date processed: 8/8/2006

Send to:

Report also available online at http://uwiab.solls.wisc.edu/reports.

Lab #: 8149 Access code: vr43

Bample Information

Sample Name: Row #4

Material: Beef

Type of Storage: other

Storage System: Solid

Type of Bedding: sawdust/shavings/bark

上記書館 学 温型aboratory Analysts 学 二

Molsture: 28.80%

Dry Matter: 71.20%

Estimated Available Nutrient Credits for Manure:

	Total Nutrients ibs/ton	in 1et Year of Application lbeton	# Applied 2 Consecutive Yrs Ibs/ton	If Applied 3 Consecutive Yrs (be/ion
Total Nitrogen (Injected)	7.26	2.54	3.27	3.63
Total Nitrogen (Surface Applied)	7.26	1.82	2.54	2.90
Total Phosphorus as P_xO ,	7.17	4.30	5.02	5.38
Total Potassium as K.O	1.54	1.23	1.39	1.48
Sulfur	2.56	1,54	1.79	1.92
Estimated Value of Available Nutrients in Surface Applied Manure		\$2.07	\$3.50	\$3.81

Additional information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.36/lb P₂Q (Triple Superphosphate) \$0.35/lb K₂O (Potash) \$0.21/lb

WASTE ANALYSIS REPORT

Samples Analyzed By: UW Soil & Forage Analysis Lab 6396 Yellowstone Drive Marshfield, WI 54449 (715) 367-2523 COOPERATIVE EXTENSION
Universily of Wisconsin-Extension
University of Wisconsin-Madison
Soils Department, Madison. Wi

Report #: 8245

Lab #: 5797-5801

Date received: 9/8/2005

Account: 557368

County: out-of-state/unknown

Date processed: 9/13/2005



Send to:

Cold Spring Farm -

(b) (6)

Report also available online at http://uwlab.solls.wisc.edu/raports.

Lab #: 8245 Access code; acep

Sample Information

Sample Name: 5799-3

Material: Beef

Type of Storage: bedded pack

Storage System: Solid

Type of Bedding: sawdust/shavings/bark

Laboratory Analysis

Moisture: 48.30%

Dry Matter: 51.70%

Estimated Available Nutrient Credits for Manure:

	Total Mutrients bs/ton	In 1st Year of Application lbs/ton	If Applied 2 Consecutive Yrs lbs/ton	If Applied 3 Consecutive Yrs Ibs/ton
Total Nitrogen (Injected)	14.48	5.07	6.52	7.24
Total Nitrogen (Surface Applied)	14.48	3.62	5.07	5.79
Total Phosphorus as P ₂ O ₆	7.58	4.55	5.31	5.69
Total Potassium as K ₂ O	9.93	7.94	8.94	9.43
Sulfur	3.00	1.80	2.10	2.25
Estimated Value of Available Nutrients in Surface	\$4.25	\$5.16	\$5.61	

Additional Information

1 Value based on commercial fertilizer costs as of 3/1/2004:

N (urea) \$0.31/lb

P₂O₅ (Triple Superphosphate) \$0.32/lb

K20 (Potash) \$0.16/lb

WASTE ANALYSIS REPORT

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523 COOPERATIVE EXTENSION University of Wisconsin-Extension University of Wisconsin-Madison Soils Department, Madison, WI

Report #: 8245

Lab #: 5797-5801

Date received: 9/8/2005

Account: 557368

Client: Cold Springs Farm

County: out-of-state/unknown

Date processed: 9/13/2005

Send to:

Report also available online at http://http://uwlab.soils.wisc.edu/reports.

Lab #: 8245 Access code: acep

Sample Information

Sample Name: 5797-1

cerrent pens

Material: Beef

Type of Storage: bedded pack

Storage System: Solid

Type of Bedding: sawdust/shavings/bark

Laboratory Analysis

Moisture: 72.30%

Dry Matter: 27.70%

Estimated Available Nutrient Credits for Manure:

	<u>Total Nutrients</u> lbs/ton	In 1st Year of Application lbs/ton	If Applied 2 <u>Consecutive Yrs</u> Ibs/ton	If Applied 3 Consecutive Yrs Ibs/ton
Total Nitrogen (Injected)	16.07	5.62	7.23	8.04
Total Nitrogen (Surface Applied)	16.07	4.02	5.62	6.43
Total Phosphorus as P $_2$ O $_5$	11.42.	6.85	7.99	8.57
Total Potassium as K ₂ O	11.90	9.52	10.71	11.30
Sulfur	2.38	1.43	1.67	1.79
Estimated Value of Available Nutrients in Surface	\$6.32	\$7.64	\$8.29	

Additional Information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.38/lb

 P_2Q (Triple Superphosphate) \$0.35/lb

K₂O (Potash) \$0.21/lb

WASTE ANALYSIS REPORT

COOPERATIVE EXTENSION University of Wisconsin-Extension University of Wisconsin-Madison Soils Department, Madison, WI

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523

Report #: 8245

Lab #: 5797-5801

Date received: 9/8/2005

Account: 557368

Client: Cold Springs Farm

County: out-of-state/unknown

Date processed: 9/13/2005

Send to:

Report also available online at http://http://uwlab.soils.wisc.edu/reports.

Lab #: 8245 Access code: acep

Sample Information

Sample Name: 5798-2 concrete pit

Material: Beef

Storage System: Solid

Type of Storage: concrete pit

Type of Bedding: sawdust/shavings/bark

Laboratory Analysis

Moisture: 84.20% Dry Matter: 15.80%

Estimated Available Nutrient Credits for Manure:

	Total Nutrients Ibs/ton	In 1st Year of Application lbs/ton	If Applied 2 <u>Consecutive Yrs</u> Ibs/ton	If Applied 3 Consecutive Yrs lbs/ton
Total Nitrogen (Injected)	5.69	1.99	2.56	2.85
Total Nitrogen (Surface Applied)	5.69	1.42	1.99	2.28
Total Phosphorus as P_2O_{5}	2.17	1.30	1.52	1.63
Total Potassium as K ₂ O	2.31	1.85	2.08	2.19
Sulfur	0.60	0.36	0.42	0.45
Estimated Value of Available Nutrients in Surface Applied Manure		\$1.48	\$1.84	\$2.02

Additional Information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.38/lb

P₂Q (Triple Superphosphate) \$0.35/lb

K₂O (Potash) \$0.21/lb

WASTE ANALYSIS REPORT

COOPERATIVE EXTENSION University of Wisconsin-Extension University of Wisconsin-Madison Soils Department, Madison, WI

UW Soil & Forage Analysis Lab 8396 Yellowstone Drive Marshfield, WI 54449 (715) 387-2523

Report #: 8245

Lab #: 5797-5801

Date received: 9/8/2005

Account: 557368

Client: Cold Springs Farm

County: out-of-state/unknown

Date processed: 9/13/2005

Send to:

Report also available online at http://http://uwlab.soils.wisc.edu/reports.

Lab #: 8245 Access code: acep

Sample Information

Sample Name: 5801-5 - Pond

Material: Beef

, ,

Storage System: Solid

Type of Storage: other

Type of Bedding: none

Laboratory Analysis

Moisture: 99.80%

Dry Matter: 0.20%

Estimated Available Nutrient Credits for Manure:

	Total Nutrients Ibs/ton	In 1st Year of Application lbs/ton	If Applied 2 <u>Consecutive Yrs</u> Ibs/ton	If Applied 3 Consecutive Yrs Ibs/ton
Total Nitrogen (Injected)	0.20	0.07	0.09	0.10
Total Nitrogen (Surface Applied)	0.20	0.05	0.07	0.08
Total Phosphorus as P_2O_5	0.04	0.02	0.03	0.03
Total Potassium as K ₂ O	0.94	0.75	0.85	0.89
Sulfur	0.03	0.02	0.02	0.02
Estimated Value of Available Nutrients in Surface Applied Manure		\$0.20	\$0.23	\$0.24

Additional Information

1 Value based on commercial fertilizer costs as of 9/1/2005:

N (urea) \$0.38/lb

P₂Q (Triple Superphosphate) \$0.35/lb

K₂O (Potash) \$0.21/lb

Cold Springs Farm

Manure Waste Information

Cold Springs Farm has made every effort to divert clean rain water from manure waste areas and to keep manure waste clear of any clean water. Catch basins, ponds, gutters and diversion berms are examples and identified within this application.

Now, as it becomes time to handle the waste on a daily basis, we use equipment that is in top operational condition. All guards and splash panels are left in place and the equipment is inspected frequently for any leaks. All our operators know not to overfill a spreader and a speed limit of 20mph is adhered to. Such attention has proven itself as there have been no spills or accidents with our manure hauling. We operate two slinger spreaders and one box spreader. The following pages identify where every load of manure waste is taken.

Form 10-A

Manure Application Equipment Methods

(Check all that are used.)

Solid or semi-solid manure:
☑ Tractor-drawn box spreader
☐ Truck mounted spreader
☐ Other
Liquid manure and wastewater, with one or more vehicles involved:
Over-the-road nurse tanker
Field applicator tank
Towed hose "umbilical cord" with tractor mounted toolbar
Manure or wastewater pumped to an in-field irrigation system:
☐ Hard-hose traveling gun
☐ Center pivot irrigation
☐ Stationary gun irrigation
☐ Solid set sprinklers
☐ Other
Soil incorporation method:
☑ Broadcast, no incorporation
☐ Broadcast, with separate incorporation step the same day
☑ Broadcast in combination with shallow incorporation (rolling tine, S-tine sweeps, concave coulters)
☐ Soil injected (sweep, knife, coulter, etc.)
Other:
Equipment uses variable rate application rate based on within-field site-specific information.
☐ Equipment generates as-applied maps showing:
☐ Path of implement in the field
☐ Path of implement and application rate
☐ Other

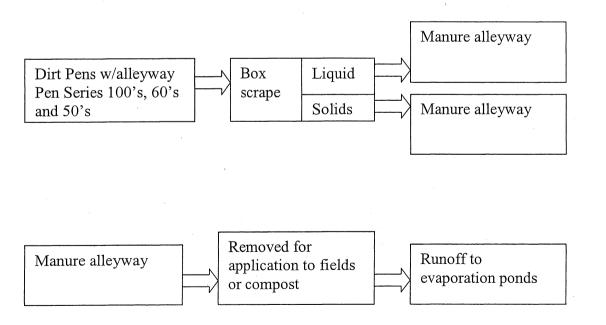
Appendix B

Manure "Management Train"

Step 4

Manure System "Management Train" For Dirt Mound Pens

Each dirt mound pen was engineered and built to control & collect animal waste. Pens are box scraped and cleaned of manure from feeding aprons frequently. Run off waste is collected in an "alleyway" which facilitates bulk removal of waste. The alleyway is shaped to collect all runoff and a pair of evaporation ponds collects any runoff. Best Management Practices are in place to monitor these ponds; a) checking the level against staked indices, b) inspecting banks for erosion or rodent holes and c) maintaining dirt & hay bales (at each pond) along with silt fence and pumps in the event of any emergency. Following is a flow diagram & photograph(s):



Appendix B

Manure "Management Train"

Step 4

Manure System "Management Train" For Concrete Pens

Each concrete pen was engineered and built to control animal waste and to collect any such waste and rain water. The sheds are guttered and diverted to grassy waterway. Pens are cleaned weekly and waste is applied, composted or stored. Run off waste is channeled (via concrete slew) into a concrete pit. This pit is monitored daily and, when appropriate, agitated and pumped into spreaders for application. In the event of an overflow, there is a retention pond below the pit. Following is a flow diagram & photograph(s):

